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ACIDIC PRECIPITATION IN ONTARIO STUDY

DAILY PRECIPITATION CHEMISTRY LISTINGS

AND STATISTICAL SUMMARIES

JULY 15, 1980 - DECEMBER 31, 1981

APIOS 001/82

SUMMER 1982



Ministry of the Environment

Ontario

The Honourable
Keith C. Norton, Q.C.,
Minister

Gérard J. M. Raymond
Deputy Minister

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ACIDIC PRECIPITATION IN ONTARIO STUDY

DAILY PRECIPITATION CHEMISTRY LISTINGS AND STATISTICAL SUMMARIES

JULY 15, 1980 - DECEMBER 31, 1981

API 001/82

Atmospheric Deposition and Chemistry Program
Acidic Precipitation In Ontario Study
Air Resources Branch
Ontario Ministry of the Environment
Toronto, Ont.
M5S 1Z8

July 1982

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Canada, M4V 1P5
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This report was prepared by Richard Kirk, APIOS Atmospheric Deposition and Chemistry Program Database Scientist. However, the data themselves are a product of the combined efforts of many individuals. Precipitation samples were collected by a large number of site operators, whose names cannot be individually mentioned here, under the coordination of the APIOS environmental technicians Steve Elliott (in Southwestern Region), Paul Kehoe (in Southeastern Region), Wim Smits (in Northwestern Region) and J.P. Varto (in Central Region). Sample handling was carried out by Daniel Orr, Liane Skelton and Gregory Brown at the Air Resources Branch. Chemical Analysis were performed at the Laboratory Services Branch under the coordination of Frank Tomassini. All enquiries regarding the reported data should be directed to Walter Chan, the APIOS Atmospheric Deposition and Chemistry Program Leader (416-965-1634).

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	02	Longwoods	5
	03	North Easthope	9
	04	Wellesley	13
Central	05	Raven Lake	17
	06	Balsam Lake	21
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	06	Balsam Lake	81
	07	Nithgrove	85
	08	Dorset	89
Southeastern	09	Whitman Creek	93
	10	Railton	97
	11	Charleston Lake	101
	12	Graham Lake	105
Northwestern	13	Forbes Township	109
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Southwestern	01	Melbourne	121
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Central	05	Raven Lake	187
	06	Balsam Lake	199
	07	Nithgrove	214
	08	Dorset	226
Southeastern	09	Whitman Creek	250
	10	Railton	262
	11	Charleston Lake	280
	12	Graham Lake	295
Northwestern	13	Forbes Township	310
	14	Quetico Centre	316
	15	Lac La Croix	319
	16	Fernberg	325

PART I

INTRODUCTION

INTRODUCTION

The data listed herein are a summary of the results acquired from the APIOS daily precipitation sampling network from start-up time (partial operation July, 1980) to December 31, 1981. All data presented in this report have been screened for validity. Remarks and qualifications have been appended to records, and/or results where necessary. The screening procedure involved checking each record for chemical analysis integrity (e.g. - ionic balance, observed vs. theoretical conductance) and also comparing each result with the 95% upper limit. Records and/or results deemed unreliable are flagged but not deleted.

Samplers utilized for daily precipitation collection include the Aerochem Metrics and SES (Sudbury Environmental Study) types. The primary instrumentation is the Aerochem Metrices type for rain sampling and the SES type for snow/rain sampling. At the Dorset, Kingston and London station clusters, the Aerochem Metrices type was utilized from May 1 to October 31 and in the Thunder Bay cluster, from May 1 to September 30. The SES type was utilized from November 1 to April 30 in the Dorset, Kingston and London station clusters and from October 1 to April 30 in the Thunder Bay station cluster.

Station Identification

The station identification is defined by four descriptive fields (e.g. - Dorset/Daily/Aerochem #08). The first field refers to the sampling location. The second and third fields describe the sampling interval and the instrumentation used respectively. The last numeric

field refers to the index code utilized on the location map. All data listings and statistical summaries are ordered by the map index code.

Statistical Summaries and Data Listings

Sample type, as coded in the data listings, represents the best guess as to the type of event which was sampled. The sample date represents the date at which the sample was removed from the sampler. All chemical analyses were done on unfiltered samples. Lab pH entries represent pH measurements at the main MOE Laboratory in Toronto while field pH entries represent measurements at regional laboratories. Remark codes (e.g. U,W,A) appended to individual results are defined in a latter section.

The precipitation chemistry and deposition summary statistics were generated including all data available except with the following modifications. When detection limits were encountered, half the value was utilized in the numerical calculations. Results which have been flagged as unreliable were not used. The utilized precipitation depths (mm) represent the observed precipitation gauge depths. However, if gauge depth was not available, depth corresponding to volume collected in the precipitation sampler was utilized for calculating deposition. Arithmetic mean, arithmetic standard deviation and volume weighted mean are not presented for pH because they are not meaningful for a parameter which is logarithmically related to the free hydrogen ion.

Calculation of Equivalent Precipitation Depth (mm)

Aerochem Metrics Instrumentation:

$$\text{Equivalent Precipitation Depth (mm)} = \frac{\text{Volume Collected (ml)} \times 15.6}{1000}$$

SES Instrumentation:

$$\text{Equivalent Precipitation Depth (mm)} = \frac{\text{Volume Collected (ml)} \times 6.1}{1000}$$

Calculation of Observed Sampling Efficiency

$$\% \text{ Efficiency} = \frac{\text{Equivalent Precipitation Depth (mm)} \times 100}{\text{Gauge Depth (mm)}}$$

Field Comment Code Index

A - Insects in sample
B - Leaves in sample
C - Particulates in sample
D - Fibres in sample
E - Sample not submitted
F - Sampler malfunctioned
G - Sample spilled or leaked
H - Volume incorrect
I - Event(s) missed
J - Wet side open when not precipitating
K - No precipitation collected
L - Part of event missed
Q - Other

Office Comment Code Index

A - Data acceptable
B - Data acceptable with qualifications
C - Data not acceptable
D - Evaporative effects evident
E - Evident contamination
F - Suspected contamination
J - Δ pH large
K - Field pH used
L - One or more parameters high
M - Poor ionic balance
N - Sampler efficiency low
X - Sample lost

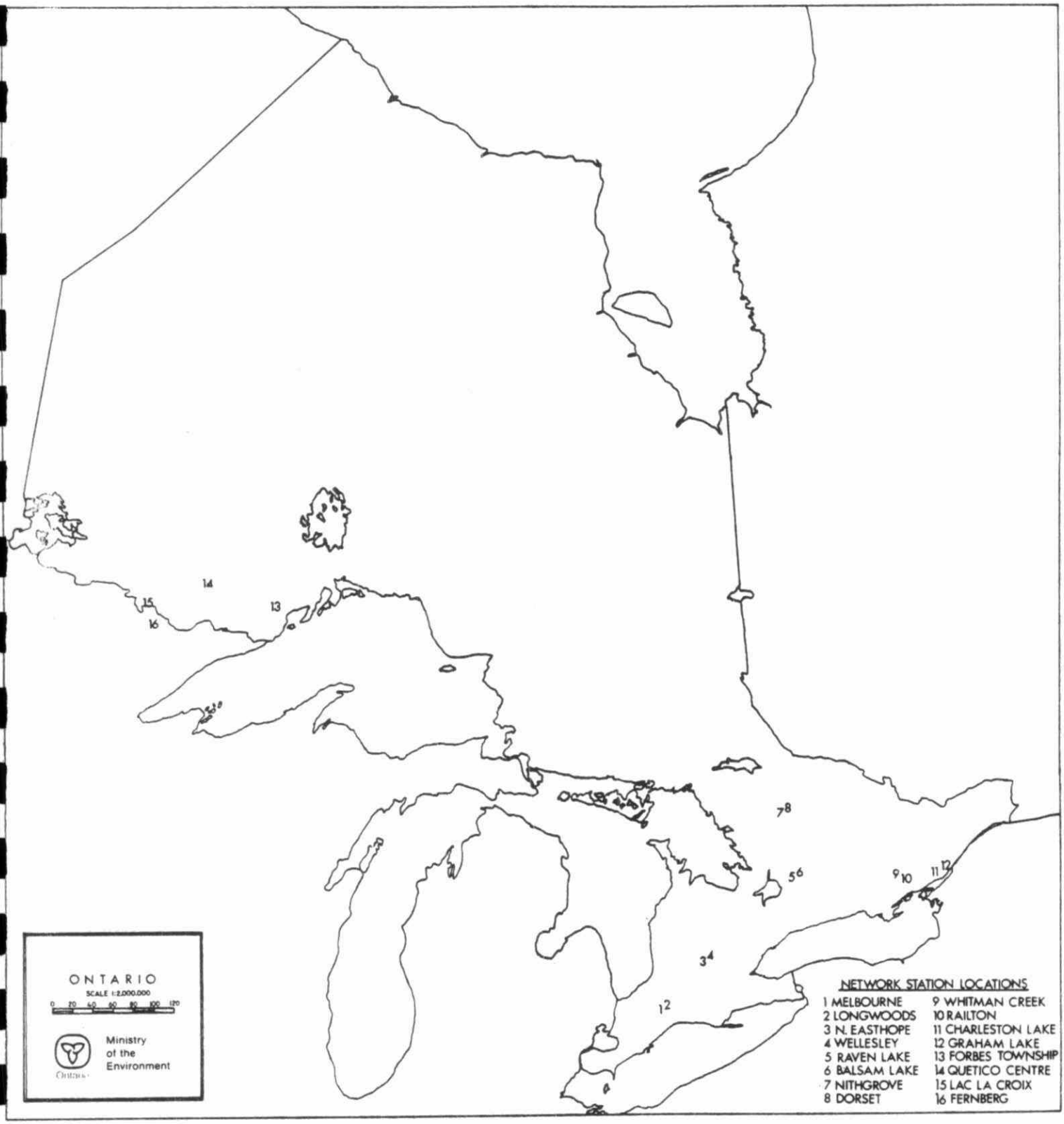
Result Remark Code Index

> - actual results greater than value reported
< - actual result less than value reported
A - approximate value
U - unreliable result
W - no response, minimim possible result reported

RK/mb/AR20-9

PART II

STATION DESCRIPTON AND LOCATION MAP


ONTARIO
SCALE 1:2,000,000
0 20 40 60 80 100 120
Ministry of the Environment
Ontario
NETWORK STATION LOCATIONS
1 MELBOURNE
2 LONGWOODS
3 N. EASTHOPE
4 WELLESLEY
5 RAVEN LAKE
6 BALSAM LAKE
7 NITHGROVE
8 DORSET
9 WHITMAN CREEK
10 RAILTON
11 CHARLESTON LAKE
12 GRAHAM LAKE
13 FORBES TOWNSHIP
14 QUETICO CENTRE
15 LAC LA CROIX
16 FERNBERG

APOS EVENT WET/DRY DEPOSITION NETWORK SITE LOCATIONS

AREA	MOE REGION	STATION NAME	INSTRUMENTATION	ELEVATION (m above MSL)	LATITUDE (North)	LONGITUDE (West)	UTM COORDINATES (Northing)	(Easting)
London	Southwestern	Longwoods Conservations Area	Wet and Dry	239	42°53'	81°29'	4747850	460700
		Melbourne	Wet	213	42°47'	81°33'	4736850	454600
		North Easthope	Wet	375	43°24'	80°53'	4805650	508650
		Wellesley	Wet	344	43°28'	80°46'	4812650	519500
Dorset	Central	Dorset Lab	Wet and Dry	320	45°13'	78°56'	5009600	662450
		Nithgrove	Wet	325	45°12'	79°04'	5006800	651600
		Balsam Lake Provincial Park	Wet	259	44°38'	78°51'	4943400	670070
		Raven Lake	Wet	274	44°37'	78°54'	4941600	665750
Kingston	Southeastern	Charleston Lake Provincial Park	Wet and Dry	92	44°30'	76°03'	4927500	417150
		Graham Lake	Wet	130	44°35'	75°52'	4936750	431450
		Railton	Wet	137	44°29'	76°49'	4927200	355100
		Whitman Creek	Wet	137	44°29'	76°49'	4927200	355100
Thunder Bay	Northwestern	Fernberg	Wet and Dry	506	47°50'	91°52'	5316000	585000
		Lac la Croix	Wet	368	48°21'	92°12'	5356000	558200
		Forbes Twsp.	Wet	324	48°38'	89°37'	5388000	308000
		Quetico Centre	Wet	420	48°45'	91°12'	5399000	632000

PART III

DAILY PRECIPITATION CHEMISTRY SUMMARY STATISTICS

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF OBSERVED CONCENTRATIONS
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : MELBOURNE/DAILY/AEROCHEM #01
START TIME : NOV 4,80 END TIME : NOV22,81

	PRECIP. MM	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ MG/L	SULPHATE MG/L	AMMONIUM AS N MG/L
# OF SAMPLES :	79.0	42.0	19.00	83.00	42.000	74.00	55.000
MAXIMUM :	45.2	76.0	5.82	6.86	0.196	21.50	1.710
MINIMUM :	0.4	3.9	3.87	3.08	0.023	0.50	0.056
RANGE :	44.8	72.1	1.95	3.78	0.173	21.00	1.654
ARITH. MEAN :	6.6	33.5	******	******	0.097	5.01	0.513
ARITH. STD. DEV :	7.1	15.8	******	******	0.035	4.06	0.424
GEOM. MEAN :	4.0	29.1	4.29	4.31	0.090	3.78	0.377
GEOM. STD. DEV. :	1.1	0.6	0.10	0.14	0.408	0.77	0.810
1ST QUARTILE :	1.6	22.3	4.02	3.99	0.069	2.32	0.205
2ND QUARTILE :	4.1	33.0	4.21	4.18	0.096	3.75	0.364
3RD QUARTILE :	9.3	41.8	4.30	4.44	0.116	6.05	0.660
VOL. WGT. MEAN :	******	26.4	******	******	0.077	3.41	0.348

***** : INSUFFICIENT DATA
NOTE : PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF OBSERVED CONCENTRATIONS
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : MELBOURNE/DAILY/AEROCHEM #01
START TIME : NOV 4,80 END TIME : NOV22,81

	NITRATE AS N MG/L	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	FREE H+ LAB MG/L
# OF SAMPLES :	74.00	59.00	73.00	59.000	59.000	59.000	83.000
MAXIMUM :	11.60	2.93	2.10	0.565	0.300	0.580	0.832
MINIMUM :	0.00	0.04	0.00	0.002	0.005	0.010	0.000
RANGE :	11.60	2.89	2.10	0.563	0.295	0.570	0.832
ARITH. MEAN :	1.01	0.43	0.38	0.069	0.064	0.179	0.088
ARITH. STD. DEV :	1.48	0.58	0.37	0.092	0.064	0.138	0.111
GEOM. MEAN :	0.61	0.24	0.27	0.032	0.042	0.127	0.044
GEOM. STD. DEV. :	1.09	1.05	0.90	1.380	0.957	0.905	1.568
1ST QUARTILE :	0.38	0.12	0.18	0.015	0.020	0.070	0.035
2ND QUARTILE :	0.65	0.20	0.27	0.035	0.040	0.140	0.062
3RD QUARTILE :	1.07	0.52	0.46	0.098	0.090	0.270	0.102
VOL. WGT. MEAN :	0.58	0.24	0.20	0.039	0.049	0.108	0.072

***** : INSUFFICIENT DATA

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF OBSERVED CONCENTRATIONS
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : MELBOURNE/DAILY/SES #01
START TIME : FEB 6.81 END TIME : JAN 1.82

	PRECIP. MM	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ MG/L	SULPHATE MG/L	AMMONIUM AS N MG/L
# OF SAMPLES :	42.0	29.0	17.00	47.00	27.000	42.00	41.000
MAXIMUM :	31.6	90.0	5.85	7.55	0.223	30.00	6.100
MINIMUM :	0.4	4.7	3.77	3.30	0.034	0.45	0.034
RANGE :	31.2	85.3	2.08	4.25	0.189	29.55	6.066
ARITH. MEAN :	6.8	32.1	******	******	0.087	4.52	0.991
ARITH. STD. DEV :	8.3	19.8	******	******	0.048	4.75	1.148
GEOM. MEAN :	3.3	26.0	4.46	4.90	0.076	3.17	0.615
GEOM. STD. DEV. :	1.3	0.7	0.11	0.23	0.528	0.87	1.011
1ST QUARTILE :	1.2	18.1	4.11	4.16	0.046	1.95	0.326
2ND QUARTILE :	3.3	28.8	4.26	4.46	0.079	3.75	0.575
3RD QUARTILE :	8.3	44.8	4.82	5.95	0.105	5.80	0.995
VOL. WGT. MEAN :	******	25.2	******	******	0.076	3.18	0.683

***** : INSUFFICIENT DATA
NOTE : PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF OBSERVED CONCENTRATIONS
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : MELBOURNE/DAILY/SES #01
START TIME : FEB 6,81 END TIME : JAN 1,82

	NITRATE AS N MG/L	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	FREE H+ LAB MG/L
# OF SAMPLES :	42.00	36.00	42.00	36.000	36.000	36.000	47.000
MAXIMUM :	5.40	4.00	2.20	0.740	0.920	9.500	0.501
MINIMUM :	0.04	0.04	0.00	0.005	0.005	0.020	0.000
RANGE :	5.36	3.96	2.19	0.735	0.915	9.480	0.501
ARITH. MEAN :	1.03	0.63	0.49	0.119	0.101	0.443	0.055
ARITH. STD. DEV :	1.05	0.80	0.53	0.158	0.162	1.568	0.086
GEOM. MEAN :	0.67	0.37	0.24	0.065	0.051	0.128	0.009
GEOM. STD. DEV. :	0.99	1.05	1.47	1.127	1.186	1.206	2.761
1ST QUARTILE :	0.38	0.15	0.09	0.032	0.030	0.060	0.001
2ND QUARTILE :	0.69	0.39	0.24	0.067	0.050	0.110	0.032
3RD QUARTILE :	1.22	0.63	0.65	0.113	0.115	0.245	0.065
VOL. WGT. MEAN :	0.58	0.36	0.23	0.063	0.094	0.259	0.043

***** : INSUFFICIENT DATA

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF OBSERVED CONCENTRATIONS
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : LONGWOODS/DAILY/AEROCHEM #02
START TIME : JUL15,80 END TIME : NOV21,81

	PRECIP. MM	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ MG/L	SULPHATE MG/L	AMMONIUM AS N MG/L
# OF SAMPLES :	120.0	65.0	30.00	120.00	67.000	108.00	******
MAXIMUM :	53.0	104.0	5.40	7.59	0.271	14.00	1.840
MINIMUM :	0.2	3.9	3.70	3.23	0.027	0.35	0.006
RANGE :	52.8	100.1	1.70	4.36	0.244	13.65	1.834
ARITH. MEAN :	8.5	33.9	******	******	0.105	4.22	0.479
ARITH. STD. DEV :	9.0	20.3	******	******	0.055	3.02	0.362
GEOM. MEAN :	4.9	28.6	4.23	4.41	0.092	3.24	0.349
GEOM. STD. DEV. :	1.1	0.6	0.08	0.16	0.511	0.77	0.902
1ST QUARTILE :	2.5	19.3	3.98	4.01	0.065	2.07	0.234
2ND QUARTILE :	5.2	29.1	4.16	4.24	0.095	3.25	0.375
3RD QUARTILE :	11.4	41.9	4.34	4.67	0.126	5.32	0.660
VOL. WGT. MEAN :	******	28.8	******	******	0.086	3.64	0.380

***** : INSUFFICIENT DATA
NOTE : PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF OBSERVED CONCENTRATIONS
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : LONGWOODS/DAILY/AEROCHEM #02
START TIME : JUL15,80 END TIME : NOV21,81

	NITRATE AS N MG/L	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	FREE H+ LAB MG/L
# OF SAMPLES :	108.00	92.00	108.00	90.000	92.000	92.000	******
MAXIMUM :	2.40	1.89	1.70	0.365	0.590	0.730	0.589
MINIMUM :	0.02	0.03	0.01	0.002	0.005	0.005	0.000
RANGE :	2.38	1.86	1.69	0.363	0.585	0.725	0.589
ARITH. MEAN :	0.69	0.41	0.27	0.065	0.062	0.105	0.076
ARITH. STD. DEV :	0.49	0.39	0.25	0.064	0.080	0.110	0.082
GEOM. MEAN :	0.51	0.29	0.20	0.044	0.038	0.067	0.034
GEOM. STD. DEV. :	0.90	0.86	0.86	0.945	0.943	1.001	1.830
1ST QUARTILE :	0.33	0.15	0.13	0.025	0.020	0.040	0.021
2ND QUARTILE :	0.58	0.25	0.20	0.042	0.040	0.070	0.058
3RD QUARTILE :	1.01	0.52	0.33	0.085	0.070	0.130	0.099
VOL. WGT. MEAN :	0.53	0.26	0.18	0.044	0.041	0.078	0.072

***** : INSUFFICIENT DATA

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF OBSERVED CONCENTRATIONS
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : LONGWOODS/DAILY/SES #02
START TIME : JAN28.81 END TIME : JAN 1.82

	PRECIP. MM	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ MG/L	SULPHATE MG/L	AMMONIUM AS N MG/L
# OF SAMPLES :	47.0	47.0	25.00	61.00	43.000	59.00	58.000
MAXIMUM :	31.4	170.0	7.12	7.73	0.131	23.00	4.400
MINIMUM :	0.2	4.0	3.91	3.39	0.028	0.20	0.046
RANGE :	31.2	166.0	3.21	4.34	0.104	22.80	4.354
ARITH. MEAN :	6.3	37.4	******	******	0.066	4.73	0.756
ARITH. STD. DEV :	7.2	32.8	******	******	0.032	4.51	0.800
GEOM. MEAN :	3.5	27.9	4.76	5.23	0.059	3.18	0.472
GEOM. STD. DEV. :	1.2	0.8	0.18	0.24	0.500	0.96	1.035
1ST QUARTILE :	1.5	16.6	4.09	4.27	0.037	1.85	0.264
2ND QUARTILE :	3.9	26.9	4.48	4.77	0.060	3.02	0.520
3RD QUARTILE :	7.2	43.1	5.19	6.45	0.086	6.50	0.815
VOL. WGT. MEAN :	******	29.3	******	******	0.065	3.68	0.528

***** : INSUFFICIENT DATA
NOTE : PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF OBSERVED CONCENTRATIONS
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : LONGWOODS/DAILY/SES #02
START TIME : JAN28,81 END TIME : JAN 1,82

	NITRATE AS N MG/L	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	FREE H+ LAB MG/L
# OF SAMPLES :	59.00	53.00	59.00	54.000	54.000	54.000	61.000
MAXIMUM :	5.60	22.50	2.35	2.120	1.060	2.100	0.407
MINIMUM :	0.05	0.03	0.00	0.002	0.005	0.005	0.000
RANGE :	5.55	22.47	2.35	2.117	1.055	2.095	0.407
ARITH. MEAN :	0.98	2.43	0.50	0.308	0.135	0.230	0.037
ARITH. STD. DEV :	0.97	4.68	0.51	0.417	0.207	0.321	0.067
GEOM. MEAN :	0.64	0.92	0.27	0.146	0.067	0.126	0.004
GEOM. STD. DEV. :	0.99	1.40	1.33	1.401	1.151	1.136	2.994
1ST QUARTILE :	0.38	0.37	0.15	0.065	0.030	0.055	0.000
2ND QUARTILE :	0.60	1.01	0.28	0.163	0.070	0.125	0.014
3RD QUARTILE :	1.23	2.10	0.67	0.348	0.130	0.285	0.051
VOL. WGT. MEAN :	0.68	1.63	0.25	0.225	0.077	0.115	0.033

***** : INSUFFICIENT DATA

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF OBSERVED CONCENTRATIONS
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : NORTH EASTHOPE/DAILY/AEROCHEM #03
START TIME : NOV 2.80 END TIME : DEC 6.81

	PRECIP. MM	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ MG/L	SULPHATE MG/L	AMMONIA AS N MG/L
# OF SAMPLES :	106.0	44.0	20.00	108.00	50.000	95.00	77.000
MAXIMUM :	42.3	137.0	6.51	7.19	0.340	17.30	9.000
MINIMUM :	0.3	6.8	3.78	3.56	0.030	0.20	0.001
RANGE :	42.0	130.2	2.73	3.63	0.310	17.10	8.999
ARITH. MEAN :	6.3	43.5	******	******	0.106	4.84	0.873
ARITH. STD. DEV :	7.3	32.1	******	******	0.071	3.86	1.369
GEOM. MEAN :	3.5	33.6	4.41	4.78	0.088	3.23	0.413
GEOM. STD. DEV. :	1.1	0.7	0.12	0.21	0.600	1.03	1.479
1ST QUARTILE :	1.5	19.5	4.12	4.06	0.063	1.77	0.241
2ND QUARTILE :	3.6	29.0	4.33	4.45	0.080	3.45	0.540
3RD QUARTILE :	7.4	67.0	4.48	5.99	0.115	7.65	0.845
VOL. WGT. MEAN :	******	31.1	******	******	0.089	4.21	0.757

***** : INSUFFICIENT DATA
NOTE : PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF OBSERVED CONCENTRATIONS
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : NORTH EASTHOPE/DAILY/AEROCHEM #03
START TIME : NOV 2,80 END TIME : DEC 6,81

	NITRATE AS N MG/L	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	FREE H+ LAB MG/L
# OF SAMPLES :	95.00	68.00	95.00	68.000	67.000	68.000	******
MAXIMUM :	3.25	3.40	1.64	0.775	1.500	0.630	0.275
MINIMUM :	0.00	0.03	0.00	0.002	0.005	0.005	0.000
RANGE :	3.24	3.37	1.64	0.772	1.495	0.625	0.275
ARITH. MEAN :	0.76	0.49	0.29	0.095	0.084	0.075	0.060
ARITH. STD. DEV :	0.67	0.53	0.34	0.114	0.210	0.092	0.071
GEOM. MEAN :	0.49	0.30	0.16	0.053	0.034	0.049	0.013
GEOM. STD. DEV. :	1.14	1.06	1.30	1.173	1.228	0.921	2.542
1ST QUARTILE :	0.28	0.13	0.09	0.022	0.015	0.030	0.001
2ND QUARTILE :	0.59	0.33	0.19	0.055	0.030	0.047	0.035
3RD QUARTILE :	0.99	0.66	0.36	0.135	0.075	0.080	0.086
VOL. WGT. MEAN :	0.53	0.32	0.22	0.064	0.088	0.061	0.067

***** : INSUFFICIENT DATA

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF OBSERVED CONCENTRATIONS
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : NORTH EASTHOPE/DAILY/SES #03
START TIME : JAN17,81 END TIME : JAN 1,82

	PRECIP. MM	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ MG/L	SULPHATE MG/L	AMMONIUM AS N MG/L
# OF SAMPLES :	39.0	39.0	23.00	82.00	36.000	75.00	62.000
MAXIMUM :	18.4	91.0	6.99	8.20	0.199	28.50	6.000
MINIMUM :	0.4	5.6	3.82	3.44	0.022	0.50	0.014
RANGE :	18.0	85.4	3.17	4.76	0.177	28.00	5.986
ARITH. MEAN :	4.9	30.9	******	******	0.069	4.06	0.905
ARITH. STD. DEV :	5.1	19.8	******	******	0.033	4.45	1.015
GEOM. MEAN :	2.7	25.5	4.60	5.18	0.063	2.71	0.574
GEOM. STD. DEV. :	1.2	0.6	0.16	0.23	0.448	0.87	1.001
1ST QUARTILE :	0.9	15.8	4.19	4.32	0.046	1.52	0.298
2ND QUARTILE :	2.6	26.3	4.35	4.80	0.064	2.50	0.575
3RD QUARTILE :	7.3	36.5	4.66	6.26	0.084	4.43	1.075
VOL. WGT. MEAN :	******	27.9	******	******	0.073	2.85	0.944

***** : INSUFFICIENT DATA
NOTE : PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF OBSERVED CONCENTRATIONS
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : NORTH EASTHOPE/DAILY/SES #03
START TIME : JAN17,81 END TIME : JAN 1,82

	NITRATE AS N MG/L	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	FREE H+ LAB MG/L
# OF SAMPLES :	75.00	51.00	75.00	51.000	52.000	52.000	82.000
MAXIMUM :	6.00	8.80	6.30	1.150	1.750	0.970	0.363
MINIMUM :	0.02	0.03	0.03	0.002	0.010	0.010	0.000
RANGE :	5.98	8.77	6.27	1.147	1.740	0.960	0.363
ARITH. MEAN :	0.94	0.99	0.58	0.168	0.106	0.192	0.034
ARITH. STD. DEV :	1.03	1.51	0.86	0.228	0.253	0.208	0.054
GEOM. MEAN :	0.58	0.46	0.33	0.076	0.046	0.117	0.005
GEOM. STD. DEV. :	1.07	1.30	1.03	1.420	1.100	1.039	2.878
1ST QUARTILE :	0.31	0.14	0.17	0.035	0.020	0.065	0.000
2ND QUARTILE :	0.59	0.52	0.31	0.087	0.040	0.125	0.016
3RD QUARTILE :	1.32	1.19	0.67	0.190	0.070	0.225	0.045
VOL. WGT. MEAN :	0.53	0.57	0.24	0.105	0.178	0.136	0.036

***** : INSUFFICIENT DATA

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF OBSERVED CONCENTRATIONS
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : WELLESLEY/DAILY/AEROCHEM #04
START TIME : MAY 8,81 END TIME : NOV27,81

	PRECIP. MM	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ MG/L	SULPHATE MG/L	AMMONIUM AS N MG/L
# OF SAMPLES :	66.0	33.0	13.00	63.00	36.000	59.00	54.000
MAXIMUM :	57.2	124.0	4.71	6.56	0.309	13.50	2.000
MINIMUM :	0.2	4.8	3.79	3.56	0.029	0.20	0.046
RANGE :	57.0	119.2	0.92	3.00	0.280	13.30	1.954
ARITH. MEAN :	9.0	41.2	******	******	0.112	4.49	0.549
ARITH. STD. DEV :	11.1	28.9	******	******	0.065	2.97	0.408
GEOM. MEAN :	4.7	32.8	4.23	4.33	0.097	3.52	0.412
GEOM. STD. DEV. :	1.3	0.7	0.06	0.13	0.525	0.77	0.816
1ST QUARTILE :	2.3	20.3	3.99	4.01	0.070	2.10	0.250
2ND QUARTILE :	5.4	28.5	4.23	4.18	0.089	3.72	0.435
3RD QUARTILE :	11.8	49.5	4.35	4.45	0.130	6.22	0.750
VOL. WGT. MEAN :	******	27.8	******	******	0.087	3.39	0.365

***** : INSUFFICIENT DATA
NOTE : PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF OBSERVED CONCENTRATIONS
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : WELLESLEY/DAILY/AEROCHEM #04
START TIME : MAY 8,81 END TIME : NOV27,81

	NITRATE AS N MG/L	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	FREE H+ LAB MG/L
# OF SAMPLES :	59.00	50.00	59.00	50.000	49.000	50.000	63.000
MAXIMUM :	1.35	2.20	0.99	0.475	0.090	0.260	0.275
MINIMUM :	0.01	0.03	0.00	0.002	0.005	0.005	0.000
RANGE :	1.34	2.17	0.98	0.473	0.085	0.255	0.275
ARITH. MEAN :	0.60	0.31	0.18	0.068	0.025	0.049	0.075
ARITH. STD. DEV :	0.37	0.37	0.18	0.092	0.016	0.056	0.062
GEOM. MEAN :	0.46	0.19	0.10	0.033	0.020	0.030	0.043
GEOM. STD. DEV. :	0.89	0.98	1.32	1.241	0.692	0.999	1.489
1ST QUARTILE :	0.27	0.08	0.05	0.015	0.010	0.010	0.035
2ND QUARTILE :	0.50	0.16	0.15	0.032	0.020	0.030	0.064
3RD QUARTILE :	0.85	0.38	0.25	0.077	0.030	0.050	0.097
VOL. WGT. MEAN :	0.42	0.17	0.13	0.042	0.019	0.030	0.068

***** : INSUFFICIENT DATA

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF OBSERVED CONCENTRATIONS
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : WELLESLEY/DAILY/SES #04
START TIME : JAN28,81 END TIME : JAN 1,82

	PRECIP. MM	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ MG/L	SULPHATE MG/L	AMMONIUM AS N MG/L
# OF SAMPLES :	38.0	30.0	21.00	53.00	26.000	52.00	38.000
MAXIMUM :	18.2	106.0	5.66	7.77	0.196	17.00	5.650
MINIMUM :	0.3	7.2	3.85	3.83	0.027	0.45	0.104
RANGE :	17.9	98.8	1.81	3.94	0.169	16.55	5.546
ARITH. MEAN :	4.7	32.1	******	******	0.072	4.81	1.118
ARITH. STD. DEV :	5.4	20.0	******	******	0.036	3.76	1.093
GEOM. MEAN :	2.5	27.4	4.49	5.20	0.064	3.59	0.777
GEOM. STD. DEV. :	1.2	0.6	0.10	0.22	0.462	0.81	0.874
1ST QUARTILE :	0.8	20.8	4.21	4.30	0.046	2.25	0.460
2ND QUARTILE :	2.4	27.6	4.30	4.81	0.061	3.70	0.715
3RD QUARTILE :	5.6	38.5	4.72	6.47	0.089	6.15	1.305
VOL. WGT. MEAN :	******	21.2	******	******	0.056	2.85	0.529

***** : INSUFFICIENT DATA
NOTE : PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF OBSERVED CONCENTRATIONS
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : WELLESLEY/DAILY/SES #04
START TIME : JAN28,81 END TIME : JAN 1,82

	NITRATE AS N MG/L	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	FREE H+ LAB MG/L
# OF SAMPLES :	52.00	34.00	52.00	34.000	34.000	34.000	53.000
MAXIMUM :	3.00	4.05	6.50	0.795	0.240	0.630	0.148
MINIMUM :	0.13	0.04	0.02	0.002	0.005	0.010	0.000
RANGE :	2.87	4.01	6.48	0.793	0.235	0.620	0.148
ARITH. MEAN :	1.10	0.88	0.73	0.198	0.053	0.184	0.028
ARITH. STD. DEV :	0.73	0.87	1.06	0.191	0.056	0.158	0.035
GEOM. MEAN :	0.87	0.53	0.40	0.118	0.030	0.124	0.005
GEOM. STD. DEV. :	0.72	1.15	1.12	1.205	1.149	0.968	2.740
1ST QUARTILE :	0.48	0.37	0.17	0.047	0.010	0.060	0.000
2ND QUARTILE :	0.89	0.63	0.49	0.155	0.030	0.120	0.014
3RD QUARTILE :	1.52	1.12	0.91	0.235	0.070	0.300	0.047
VOL. WGT. MEAN :	0.60	0.57	0.23	0.131	0.025	0.091	0.029

***** : INSUFFICIENT DATA

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF OBSERVED CONCENTRATIONS
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAVEN LAKE/DAILY/AEROCHEM #05
START TIME : MAY 6,81 END TIME : OCT28,81

	PRECIP. MM	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ MG/L	SULPHATE MG/L	AMMONIUM AS N MG/L
# OF SAMPLES :	61.0	33.0	28.00	61.00	32.000	59.00	46.000
MAXIMUM :	37.2	84.0	6.61	6.92	0.222	15.50	1.280
MINIMUM :	0.6	5.3	3.63	3.52	0.023	0.25	0.004
RANGE :	36.6	78.7	2.98	3.40	0.200	15.25	1.276
ARITH. MEAN :	8.1	33.6	******	******	0.095	4.24	0.357
ARITH. STD. DEV :	8.1	19.9	******	******	0.051	3.36	0.276
GEOM. MEAN :	4.9	27.8	4.23	4.38	0.082	3.21	0.238
GEOM. STD. DEV. :	1.1	0.7	0.11	0.16	0.562	0.78	1.140
1ST QUARTILE :	2.1	19.3	3.95	4.00	0.060	1.82	0.127
2ND QUARTILE :	5.0	32.1	4.18	4.21	0.090	3.45	0.311
3RD QUARTILE :	12.2	40.4	4.35	4.45	0.117	5.22	0.480
VOL. WGT. MEAN :	******	30.4	******	******	0.080	3.57	0.320

***** : INSUFFICIENT DATA
NOTE : PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF OBSERVED CONCENTRATIONS
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAVEN LAKE/DAILY/AEROCHEM #05
START TIME : MAY 6,81 END TIME : OCT28,81

	NITRATE AS N MG/L	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	FREE H+ LAB MG/L
# OF SAMPLES :	59.00	43.00	59.00	43.000	43.000	43.000	61.000
MAXIMUM :	2.10	2.68	0.99	0.130	0.120	0.730	0.302
MINIMUM :	0.05	0.02	0.02	0.002	0.005	0.010	0.000
RANGE :	2.05	2.66	0.97	0.127	0.115	0.720	0.302
ARITH. MEAN :	0.55	0.28	0.29	0.034	0.024	0.140	0.077
ARITH. STD. DEV :	0.44	0.43	0.21	0.037	0.019	0.132	0.070
GEOM. MEAN :	0.42	0.14	0.22	0.018	0.019	0.097	0.037
GEOM. STD. DEV. :	0.80	1.16	0.80	1.257	0.713	0.895	1.803
1ST QUARTILE :	0.24	0.06	0.13	0.005	0.010	0.040	0.031
2ND QUARTILE :	0.49	0.12	0.20	0.015	0.020	0.100	0.060
3RD QUARTILE :	0.64	0.38	0.44	0.042	0.030	0.180	0.098
VOL. WGT. MEAN :	0.43	0.19	0.17	0.025	0.022	0.094	0.070

***** : INSUFFICIENT DATA

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF OBSERVED CONCENTRATIONS
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAVEN LAKE/DAILY/SES #05
START TIME : FEB 2,81 END TIME : JAN 1,82

	PRECIP. MM	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ MG/L	SULPHATE MG/L	AMMONIUM AS N MG/L
# OF SAMPLES :	53.0	38.0	32.00	58.00	33.000	57.00	49.000
MAXIMUM :	24.0	84.5	6.80	7.50	0.191	11.75	1.820
MINIMUM :	0.2	5.9	3.71	3.57	0.025	0.30	0.002
RANGE :	23.8	78.6	3.09	3.93	0.166	11.45	1.818
ARITH. MEAN :	4.8	31.7	******	******	0.087	3.32	0.531
ARITH. STD. DEV :	5.3	17.9	******	******	0.042	2.35	0.456
GEOM. MEAN :	2.7	27.2	4.42	4.66	0.078	2.48	0.306
GEOM. STD. DEV. :	1.1	0.6	0.14	0.18	0.509	0.84	1.343
1ST QUARTILE :	1.2	19.6	4.11	4.16	0.055	1.43	0.157
2ND QUARTILE :	2.3	27.3	4.22	4.38	0.077	2.50	0.353
3RD QUARTILE :	5.7	37.1	4.44	4.74	0.109	4.75	0.785
VOL. WGT. MEAN :	******	24.4	******	******	0.069	2.88	0.421

***** : INSUFFICIENT DATA
NOTE : PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF OBSERVED CONCENTRATIONS
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAVEN LAKE/DAILY/SES #05
START TIME : FEB 2,81 END TIME : JAN 1,82

	NITRATE AS N MG/L	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	FREE H+ LAB MG/L
# OF SAMPLES :	57.00	48.00	57.00	48.000	48.000	48.000	58.000
MAXIMUM :	2.90	8.30	2.20	0.950	0.300	1.800	0.269
MINIMUM :	0.04	0.02	0.00	0.002	0.005	0.010	0.000
RANGE :	2.86	8.28	2.19	0.947	0.295	1.790	0.269
ARITH. MEAN :	0.81	1.06	0.38	0.108	0.065	0.204	0.049
ARITH. STD. DEV :	0.63	1.50	0.42	0.163	0.068	0.293	0.049
GEOM. MEAN :	0.57	0.49	0.23	0.043	0.039	0.116	0.018
GEOM. STD. DEV. :	0.92	1.33	1.14	1.524	1.092	1.065	2.219
1ST QUARTILE :	0.32	0.16	0.12	0.015	0.020	0.065	0.014
2ND QUARTILE :	0.64	0.55	0.25	0.062	0.040	0.110	0.042
3RD QUARTILE :	1.05	1.11	0.42	0.135	0.085	0.195	0.065
VOL. WGT. MEAN :	0.61	0.57	0.22	0.060	0.042	0.126	0.044

***** : INSUFFICIENT DATA

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF OBSERVED CONCENTRATIONS
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : BALSAM LAKE/DAILY/AEROCHEM #06
START TIME : NOV22,80 END TIME : OCT28,81

	PRECIP. MM	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ MG/L	SULPHATE MG/L	AMMONIUM AS N MG/L
# OF SAMPLES :	63.0	45.0	34.00	81.00	40.000	70.00	62.000
MAXIMUM :	31.2	97.0	4.92	6.14	0.251	14.50	3.300
MINIMUM :	0.3	4.7	3.53	3.43	0.036	0.20	0.004
RANGE :	30.9	92.3	1.39	2.71	0.215	14.30	3.296
ARITH. MEAN :	8.0	28.4	******	******	0.091	3.23	0.338
ARITH. STD. DEV :	8.1	17.7	******	******	0.041	3.23	0.480
GEOM. MEAN :	4.3	23.4	4.22	4.38	0.084	2.09	0.178
GEOM. STD. DEV. :	1.2	0.7	0.07	0.12	0.410	1.00	1.198
1ST QUARTILE :	1.7	15.7	4.08	4.06	0.063	1.13	0.079
2ND QUARTILE :	4.0	26.3	4.22	4.30	0.083	2.25	0.204
3RD QUARTILE :	12.2	36.0	4.33	4.56	0.111	4.05	0.370
VOL. WGT. MEAN :	******	25.1	******	******	0.078	2.98	0.348

***** : INSUFFICIENT DATA
NOTE : PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF OBSERVED CONCENTRATIONS
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : BALSAM LAKE/DAILY/AEROCHEM #06
START TIME : NOV22,80 END TIME : OCT28,81

	NITRATE AS N MG/L	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	FREE H+ LAB MG/L
# OF SAMPLES :	71.00	60.00	70.00	60.000	61.000	61.000	81.000
MAXIMUM :	2.00	1.20	0.70	0.225	0.700	1.000	0.372
MINIMUM :	0.05	0.01	0.00	0.002	0.005	0.005	0.001
RANGE :	1.95	1.19	0.69	0.223	0.695	0.995	0.371
ARITH. MEAN :	0.54	0.22	0.19	0.032	0.038	0.095	0.067
ARITH. STD. DEV :	0.43	0.27	0.17	0.047	0.097	0.171	0.069
GEOM. MEAN :	0.41	0.11	0.11	0.013	0.017	0.038	0.038
GEOM. STD. DEV. :	0.77	1.24	1.20	1.378	1.044	1.350	1.314
1ST QUARTILE :	0.26	0.04	0.06	0.002	0.008	0.020	0.026
2ND QUARTILE :	0.44	0.10	0.13	0.010	0.020	0.040	0.047
3RD QUARTILE :	0.63	0.27	0.25	0.035	0.030	0.095	0.084
VOL. WGT. MEAN :	0.38	0.15	0.14	0.026	0.036	0.067	0.065

***** : INSUFFICIENT DATA

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF OBSERVED CONCENTRATIONS
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : BALSAM LAKE/DAILY/SES #06
START TIME : FEB 2,81 END TIME : JAN 1,82

	PRECIP. MM	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ MG/L	SULPHATE MG/L	AMMONIUM AS N MG/L
# OF SAMPLES :	38.0	37.0	30.00	50.00	38.000	50.00	44.000
MAXIMUM :	24.3	89.5	7.09	7.36	0.252	13.50	1.450
MINIMUM :	0.7	6.3	3.78	3.51	0.032	0.25	0.018
RANGE :	23.6	83.2	3.31	3.85	0.220	13.25	1.432
ARITH. MEAN :	5.9	31.8	******	******	0.092	3.56	0.460
ARITH. STD. DEV :	5.2	19.7	******	******	0.044	2.98	0.414
GEOM. MEAN :	3.9	26.2	4.37	4.57	0.083	2.40	0.264
GEOM. STD. DEV. :	1.0	0.6	0.13	0.16	0.457	0.97	1.231
1ST QUARTILE :	1.6	16.0	4.10	4.16	0.059	1.05	0.125
2ND QUARTILE :	5.2	26.6	4.24	4.38	0.085	2.67	0.356
3RD QUARTILE :	7.1	38.4	4.38	4.61	0.109	5.60	0.670
VOL. WGT. MEAN :	******	27.6	******	******	0.085	3.02	0.389

***** : INSUFFICIENT DATA
NOTE : PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF OBSERVED CONCENTRATIONS
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : BALSAM LAKE/DAILY/SES #06
START TIME : FEB 2,81 END TIME : JAN 1,82

	NITRATE AS N MG/L	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	FREE H+ LAB MG/L
# OF SAMPLES :	50.00	47.00	50.00	47.000	47.000	47.000	50.000
MAXIMUM :	3.40	10.00	1.69	1.150	0.520	1.400	0.309
MINIMUM :	0.05	0.02	0.00	0.002	0.005	0.005	0.000
RANGE :	3.35	9.98	1.68	1.147	0.515	1.395	0.309
ARITH. MEAN :	0.78	0.93	0.28	0.101	0.049	0.161	0.052
ARITH. STD. DEV :	0.66	1.59	0.32	0.181	0.081	0.238	0.052
GEOM. MEAN :	0.54	0.36	0.13	0.035	0.024	0.084	0.024
GEOM. STD. DEV. :	0.95	1.46	1.48	1.620	1.199	1.170	1.877
1ST QUARTILE :	0.26	0.11	0.05	0.010	0.010	0.045	0.021
2ND QUARTILE :	0.63	0.38	0.19	0.035	0.020	0.075	0.042
3RD QUARTILE :	1.08	1.22	0.39	0.130	0.065	0.165	0.068
VOL. WGT. MEAN :	0.59	0.55	0.25	0.066	0.034	0.181	0.048

***** : INSUFFICIENT DATA

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF OBSERVED CONCENTRATIONS
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : NITHGROVE/DAILY/AEROCHEM #07
START TIME : MAY 6,81 END TIME : OCT24,81

	PRECIP. MM	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ MG/L	SULPHATE MG/L	AMMONIUM AS N MG/L
# OF SAMPLES :	55.0	34.0	26.00	53.00	36.000	53.00	47.000
MAXIMUM :	35.0	114.0	4.88	6.77	0.289	13.20	1.340
MINIMUM :	0.8	8.2	3.50	3.52	0.028	0.35	0.006
RANGE :	34.2	105.8	1.38	3.25	0.261	12.85	1.334
ARITH. MEAN :	9.9	34.0	******	******	0.096	3.78	0.402
ARITH. STD. DEV :	8.6	23.8	******	******	0.056	2.76	0.293
GEOM. MEAN :	7.0	27.5	4.12	4.44	0.083	2.91	0.271
GEOM. STD. DEV. :	0.9	0.7	0.09	0.14	0.548	0.77	1.085
1ST QUARTILE :	3.8	15.5	3.81	4.03	0.056	1.90	0.137
2ND QUARTILE :	6.4	27.8	4.15	4.27	0.084	3.22	0.330
3RD QUARTILE :	13.6	45.8	4.34	4.74	0.129	4.88	0.630
VOL. WGT. MEAN :	******	28.1	******	******	0.082	3.36	0.353

***** : INSUFFICIENT DATA
NOTE : PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF OBSERVED CONCENTRATIONS
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : NITHGROVE/DAILY/AEROCHEM #07
START TIME : MAY 6,81 END TIME : OCT24,81

	NITRATE AS N MG/L	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	FREE H+ LAB MG/L
# OF SAMPLES :	53.00	44.00	53.00	44.000	44.000	44.000	53.000
MAXIMUM :	2.14	1.10	1.50	0.200	0.770	0.380	0.302
MINIMUM :	0.00	0.02	0.01	0.002	0.005	0.010	0.000
RANGE :	2.14	1.08	1.49	0.197	0.765	0.370	0.302
ARITH. MEAN :	0.48	0.27	0.23	0.045	0.094	0.073	0.065
ARITH. STD. DEV :	0.36	0.25	0.26	0.045	0.136	0.085	0.063
GEOM. MEAN :	0.36	0.18	0.15	0.027	0.056	0.047	0.032
GEOM. STD. DEV. :	0.92	0.96	0.94	1.122	0.951	0.930	1.604
1ST QUARTILE :	0.22	0.09	0.08	0.010	0.030	0.030	0.016
2ND QUARTILE :	0.41	0.18	0.15	0.025	0.050	0.040	0.050
3RD QUARTILE :	0.63	0.38	0.23	0.075	0.090	0.080	0.087
VOL. WGT. MEAN :	0.39	0.19	0.15	0.032	0.068	0.055	0.061

***** : INSUFFICIENT DATA

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF OBSERVED CONCENTRATIONS
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : NITHGROVE/DAILY/SES #07
START TIME : JAN27,81 END TIME : JAN 1,82

	PRECIP. MM	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ MG/L	SULPHATE MG/L	AMMONIUM AS N MG/L
# OF SAMPLES :	59.0	46.0	33.00	70.00	43.000	69.00	54.000
MAXIMUM :	20.0	129.5	6.23	7.04	0.311	13.80	4.850
MINIMUM :	0.4	7.2	3.69	3.47	0.023	0.20	0.001
RANGE :	19.6	122.3	2.54	3.57	0.289	13.60	4.849
ARITH. MEAN :	4.5	34.9	******	******	0.099	3.29	0.621
ARITH. STD. DEV :	4.6	25.7	******	******	0.058	2.84	0.800
GEOM. MEAN :	2.7	27.9	4.33	4.45	0.086	2.34	0.310
GEOM. STD. DEV. :	1.0	0.7	0.10	0.14	0.540	0.86	1.389
1ST QUARTILE :	1.2	16.1	4.02	4.10	0.058	1.25	0.122
2ND QUARTILE :	2.5	26.8	4.22	4.33	0.083	2.47	0.359
3RD QUARTILE :	5.8	42.8	4.52	4.62	0.121	4.00	0.815
VOL. WGT. MEAN :	******	23.9	******	******	0.073	2.66	0.359

***** : INSUFFICIENT DATA
NOTE : PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF OBSERVED CONCENTRATIONS
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : NITHGROVE/DAILY/SES #07
START TIME : JAN27,81 END TIME : JAN 1,82

	NITRATE AS N MG/L	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	FREE H+ LAB MG/L
# OF SAMPLES :	69.00	59.00	69.00	58.000	59.000	59.000	70.000
MAXIMUM :	3.50	3.80	16.40	0.575	8.200	10.600	0.339
MINIMUM :	0.01	0.02	0.00	0.002	0.005	0.010	0.000
RANGE :	3.49	3.78	16.39	0.572	8.195	10.590	0.339
ARITH. MEAN :	0.81	0.52	0.52	0.073	0.214	0.308	0.061
ARITH. STD. DEV :	0.75	0.70	1.97	0.112	1.060	1.375	0.060
GEOM. MEAN :	0.51	0.27	0.16	0.031	0.056	0.089	0.032
GEOM. STD. DEV. :	1.07	1.18	1.39	1.355	1.162	1.099	1.606
1ST QUARTILE :	0.30	0.12	0.08	0.015	0.030	0.045	0.023
2ND QUARTILE :	0.52	0.27	0.19	0.025	0.060	0.080	0.047
3RD QUARTILE :	1.04	0.57	0.36	0.085	0.100	0.130	0.075
VOL. WGT. MEAN :	0.57	0.38	0.21	0.055	0.076	0.119	0.046

***** : INSUFFICIENT DATA

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF OBSERVED CONCENTRATIONS
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/AEROCHEM #08
START TIME : JUL15,80 END TIME : DEC23,81

	PRECIP. MM	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ MG/L	SULPHATE MG/L	AMMONIUM AS N MG/L
# OF SAMPLES :	193.0	113.0	77.00	187.00	******	175.00	******
MAXIMUM :	97.0	195.0	4.76	6.77	0.512	25.70	4.600
MINIMUM :	0.4	5.6	3.24	3.31	0.028	0.15	0.001
RANGE :	96.6	189.4	1.52	3.46	0.484	25.55	4.599
ARITH. MEAN :	8.0	31.3	******	******	0.091	3.26	0.347
ARITH. STD. DEV :	10.3	26.0	******	******	0.060	3.36	0.454
GEOM. MEAN :	4.7	24.8	4.15	4.31	0.080	2.17	0.185
GEOM. STD. DEV. :	1.0	0.7	0.07	0.09	0.457	0.95	1.378
1ST QUARTILE :	2.3	16.4	4.01	4.10	0.059	1.22	0.094
2ND QUARTILE :	4.8	23.4	4.16	4.31	0.076	2.30	0.237
3RD QUARTILE :	10.0	36.6	4.35	4.52	0.100	3.80	0.485
VOL. WGT. MEAN :	******	25.0	******	******	0.074	2.79	0.309

***** : INSUFFICIENT DATA
NOTE : PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF OBSERVED CONCENTRATIONS
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/AEROCHEM #08
START TIME : JUL15,80 END TIME : DEC23,81

	NITRATE AS N MG/L	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	FREE H+ LAB MG/L
# OF SAMPLES :	175.00	140.00	174.00	******	******	******	******
MAXIMUM :	3.45	3.15	1.50	0.550	0.590	0.640	0.490
MINIMUM :	0.01	0.00	0.00	0.002	0.005	0.005	0.000
RANGE :	3.44	3.14	1.49	0.548	0.585	0.635	0.490
ARITH. MEAN :	0.57	0.21	0.17	0.034	0.029	0.050	0.067
ARITH. STD. DEV :	0.51	0.34	0.21	0.061	0.056	0.082	0.064
GEOM. MEAN :	0.40	0.10	0.09	0.014	0.017	0.026	0.047
GEOM. STD. DEV. :	0.89	1.25	1.23	1.303	0.970	1.061	0.976
1ST QUARTILE :	0.23	0.04	0.04	0.005	0.010	0.010	0.030
2ND QUARTILE :	0.40	0.11	0.10	0.015	0.020	0.020	0.048
3RD QUARTILE :	0.71	0.23	0.19	0.035	0.030	0.050	0.079
VOL. WGT. MEAN :	0.41	0.16	0.11	0.027	0.022	0.038	0.058

***** : INSUFFICIENT DATA

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF OBSERVED CONCENTRATIONS
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/SES #08
START TIME : JAN16,81 END TIME : JAN 1,82

	PRECIP. MM	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ MG/L	SULPHATE MG/L	AMMONIUM AS N MG/L
# OF SAMPLES :	79.0	47.0	37.00	75.00	46.000	72.00	62.000
MAXIMUM :	48.2	126.5	5.89	7.08	0.315	11.50	2.150
MINIMUM :	0.2	5.5	3.76	3.59	0.033	0.02	0.001
RANGE :	48.0	121.0	2.13	3.49	0.282	11.47	2.149
ARITH. MEAN :	4.7	35.0	******	******	0.098	2.86	0.434
ARITH. STD. DEV :	6.8	23.9	******	******	0.056	2.55	0.496
GEOM. MEAN :	2.3	28.8	4.20	4.35	0.086	1.83	0.177
GEOM. STD. DEV. :	1.2	0.6	0.08	0.12	0.503	1.10	1.750
1ST QUARTILE :	1.1	19.0	3.97	4.01	0.064	1.10	0.081
2ND QUARTILE :	2.2	28.3	4.15	4.27	0.080	2.05	0.221
3RD QUARTILE :	5.6	44.1	4.38	4.51	0.122	3.70	0.595
VOL. WGT. MEAN :	******	24.0	******	******	0.073	2.24	0.288

***** : INSUFFICIENT DATA
NOTE : PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF OBSERVED CONCENTRATIONS
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/SES #08
START TIME : JAN16,81 END TIME : JAN 1,82

	NITRATE AS N MG/L	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	FREE H+ LAB MG/L
# OF SAMPLES :	72.00	65.00	72.00	64.000	65.000	65.000	75.000
MAXIMUM :	2.60	3.70	2.10	0.725	0.170	1.650	0.257
MINIMUM :	0.00	0.00	0.00	0.002	0.005	0.005	0.000
RANGE :	2.60	3.69	2.10	0.723	0.165	1.645	0.257
ARITH. MEAN :	0.73	0.33	0.24	0.057	0.028	0.107	0.067
ARITH. STD. DEV :	0.62	0.59	0.30	0.118	0.031	0.221	0.054
GEOM. MEAN :	0.45	0.12	0.14	0.015	0.017	0.053	0.041
GEOM. STD. DEV. :	1.21	1.51	1.11	1.609	1.038	1.092	1.413
1ST QUARTILE :	0.26	0.03	0.08	0.002	0.005	0.025	0.029
2ND QUARTILE :	0.52	0.11	0.15	0.015	0.015	0.055	0.051
3RD QUARTILE :	0.97	0.31	0.28	0.047	0.040	0.100	0.095
VOL. WGT. MEAN :	0.52	0.24	0.16	0.039	0.022	0.067	0.051

***** : INSUFFICIENT DATA

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF OBSERVED CONCENTRATIONS
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : WHITMAN CREEK/DAILY/AEROCHEM #09
START TIME : OCT25,80 END TIME : OCT28,81

	PRECIP. MM	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ MG/L	SULPHATE MG/L	AMMONIUM AS N MG/L
# OF SAMPLES :	57.0	38.0	33.00	59.00	40.000	54.00	52.000
MAXIMUM :	51.0	77.5	5.10	6.34	0.200	14.50	1.520
MINIMUM :	0.4	3.9	3.14	3.62	0.031	0.20	0.001
RANGE :	50.6	73.6	1.96	2.72	0.168	14.30	1.519
ARITH. MEAN :	12.6	33.2	******	******	0.100	3.96	0.371
ARITH. STD. DEV :	12.9	17.0	******	******	0.038	2.63	0.286
GEOM. MEAN :	7.2	28.3	4.03	4.29	0.092	3.14	0.242
GEOM. STD. DEV. :	1.2	0.6	0.11	0.10	0.417	0.76	1.246
1ST QUARTILE :	3.5	19.6	3.80	4.00	0.071	2.00	0.181
2ND QUARTILE :	7.4	31.3	4.06	4.16	0.097	3.40	0.329
3RD QUARTILE :	15.0	43.7	4.23	4.47	0.127	4.75	0.490
VOL. WGT. MEAN :	******	25.5	******	******	0.084	3.21	0.310

***** : INSUFFICIENT DATA
NOTE : PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF OBSERVED CONCENTRATIONS
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : WHITMAN CREEK/DAILY/AEROCHEM #09
START TIME : OCT25,80 END TIME : OCT28,81

	NITRATE AS N MG/L	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	FREE H+ LAB MG/L
# OF SAMPLES :	54.00	49.00	54.00	49.000	49.000	49.000	59.000
MAXIMUM :	1.83	3.80	0.68	0.360	0.320	0.530	0.240
MINIMUM :	0.05	0.01	0.00	0.002	0.005	0.010	0.000
RANGE :	1.78	3.79	0.67	0.358	0.315	0.520	0.239
ARITH. MEAN :	0.58	0.32	0.18	0.046	0.046	0.068	0.071
ARITH. STD. DEV :	0.40	0.55	0.12	0.064	0.064	0.090	0.049
GEOM. MEAN :	0.45	0.18	0.13	0.025	0.028	0.042	0.049
GEOM. STD. DEV. :	0.77	1.10	0.90	1.124	0.971	0.921	1.114
1ST QUARTILE :	0.31	0.11	0.08	0.010	0.010	0.020	0.031
2ND QUARTILE :	0.50	0.19	0.15	0.025	0.030	0.030	0.067
3RD QUARTILE :	0.74	0.35	0.25	0.052	0.040	0.080	0.097
VOL. WGT. MEAN :	0.40	0.22	0.14	0.036	0.039	0.063	0.061

***** : INSUFFICIENT DATA

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF OBSERVED CONCENTRATIONS
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : WHITMAN CREEK/DAILY/SES #09
START TIME : NOV25.80 END TIME : JAN 1.82

	PRECIP. MM	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ MG/L	SULPHATE MG/L	AMMONIUM AS N MG/L
# OF SAMPLES :	16.0	41.0	31.00	61.00	37.000	60.00	59.000
MAXIMUM :	25.0	156.0	4.89	7.48	0.287	30.00	2.400
MINIMUM :	1.3	7.2	3.16	3.70	0.024	0.25	0.014
RANGE :	23.7	148.8	1.73	3.78	0.263	29.75	2.386
ARITH. MEAN :	7.4	39.1	******	******	0.093	4.26	0.575
ARITH. STD. DEV :	6.7	29.4	******	******	0.047	4.78	0.555
GEOM. MEAN :	4.8	31.3	4.16	4.53	0.083	2.78	0.362
GEOM. STD. DEV. :	1.0	0.7	0.09	0.17	0.487	0.95	1.045
1ST QUARTILE :	1.8	19.8	3.98	4.07	0.062	1.63	0.189
2ND QUARTILE :	6.3	32.1	4.25	4.32	0.088	2.80	0.380
3RD QUARTILE :	12.3	42.0	4.37	4.65	0.112	4.85	0.745
VOL. WGT. MEAN :	******	29.9	******	******	0.072	4.01	0.583

***** : INSUFFICIENT DATA
NOTE : PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF OBSERVED CONCENTRATIONS
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : WHITMAN CREEK/DAILY/SES #09
START TIME : NOV25,80 END TIME : JAN 1,82

	NITRATE AS N MG/L	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	FREE H+ LAB MG/L
# OF SAMPLES :	60.00	52.00	60.00	52.000	51.000	50.000	61.000
MAXIMUM :	5.60	12.00	4.30	1.400	2.000	2.500	0.200
MINIMUM :	0.10	0.01	0.03	0.002	0.005	0.020	0.000
RANGE :	5.50	11.99	4.27	1.397	1.995	2.480	0.199
ARITH. MEAN :	1.08	1.27	0.73	0.161	0.141	0.392	0.058
ARITH. STD. DEV :	1.08	2.14	0.95	0.257	0.301	0.582	0.051
GEOM. MEAN :	0.73	0.49	0.38	0.066	0.055	0.189	0.025
GEOM. STD. DEV. :	0.89	1.45	1.14	1.412	1.299	1.182	2.044
1ST QUARTILE :	0.36	0.19	0.16	0.030	0.020	0.085	0.021
2ND QUARTILE :	0.77	0.53	0.32	0.075	0.050	0.180	0.047
3RD QUARTILE :	1.31	1.33	0.86	0.165	0.120	0.405	0.080
VOL. WGT. MEAN :	0.76	0.97	0.57	0.152	0.104	0.343	0.040

***** : INSUFFICIENT DATA

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF OBSERVED CONCENTRATIONS
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAILTON/DAILY/AEROCHEM #10
START TIME : JUL15,80 END TIME : OCT28,81

	PRECIP. MM	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ MG/L	SULPHATE MG/L	AMMONIUM AS N MG/L
# OF SAMPLES :	144.0	78.0	57.00	135.00	80.000	124.00	******
MAXIMUM :	66.2	76.0	5.10	6.90	0.541	22.00	1.650
MINIMUM :	0.1	3.2	3.18	3.32	0.031	0.30	0.004
RANGE :	66.1	72.8	1.92	3.58	0.511	21.70	1.646
ARITH. MEAN :	9.8	34.9	******	******	0.113	4.12	0.420
ARITH. STD. DEV :	12.0	17.3	******	******	0.070	3.48	0.328
GEOM. MEAN :	4.9	29.8	4.12	4.26	0.099	2.97	0.292
GEOM. STD. DEV. :	1.3	0.6	0.09	0.13	0.512	0.87	1.001
1ST QUARTILE :	2.0	22.4	3.93	3.94	0.075	1.88	0.157
2ND QUARTILE :	5.4	32.0	4.15	4.15	0.102	3.20	0.332
3RD QUARTILE :	13.7	47.9	4.35	4.43	0.142	5.23	0.595
VOL. WGT. MEAN :	******	25.6	******	******	0.082	2.95	0.334

***** : INSUFFICIENT DATA
NOTE : PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF OBSERVED CONCENTRATIONS
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAILTON/DAILY/AEROCHEM #10
START TIME : JUL15,80 END TIME : OCT28,81

	NITRATE AS N MG/L	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	FREE H+ LAB MG/L
# OF SAMPLES :	124.00	105.00	124.00	******	******	******	******
MAXIMUM :	3.00	1.44	1.50	0.265	0.330	1.000	0.479
MINIMUM :	0.05	0.01	0.00	0.002	0.005	0.005	0.000
RANGE :	2.95	1.43	1.49	0.262	0.325	0.995	0.479
ARITH. MEAN :	0.72	0.36	0.33	0.046	0.058	0.158	0.085
ARITH. STD. DEV :	0.54	0.32	0.28	0.050	0.051	0.165	0.074
GEOM. MEAN :	0.54	0.23	0.24	0.027	0.041	0.099	0.050
GEOM. STD. DEV. :	0.83	1.00	0.90	1.117	0.861	1.027	1.393
1ST QUARTILE :	0.34	0.12	0.15	0.015	0.020	0.050	0.035
2ND QUARTILE :	0.59	0.25	0.24	0.030	0.040	0.100	0.070
3RD QUARTILE :	0.99	0.47	0.44	0.052	0.075	0.200	0.112
VOL. WGT. MEAN :	0.47	0.24	0.20	0.033	0.040	0.102	0.060

***** : INSUFFICIENT DATA

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF OBSERVED CONCENTRATIONS
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAILTON/DAILY/SES #10
START TIME : JAN23,81 END TIME : JAN 1,82

	PRECIP. MM	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ MG/L	SULPHATE MG/L	AMMONIUM AS N MG/L
# OF SAMPLES :	40.0	33.0	26.00	50.00	33.000	50.00	46.000
MAXIMUM :	36.4	84.0	6.17	7.09	0.307	12.80	1.830
MINIMUM :	0.2	4.7	3.21	3.60	0.024	0.35	0.060
RANGE :	36.2	79.3	2.96	3.49	0.282	12.45	1.770
ARITH. MEAN :	8.4	33.3	******	******	0.094	3.72	0.539
ARITH. STD. DEV :	9.0	15.9	******	******	0.059	2.84	0.463
GEOM. MEAN :	4.0	28.9	4.05	4.58	0.081	2.72	0.370
GEOM. STD. DEV. :	1.4	0.6	0.13	0.17	0.568	0.88	0.925
1ST QUARTILE :	1.5	22.1	3.66	4.12	0.058	1.90	0.190
2ND QUARTILE :	4.3	32.8	4.08	4.35	0.084	2.95	0.385
3RD QUARTILE :	12.8	41.0	4.25	4.69	0.108	4.63	0.760
VOL. WGT. MEAN :	******	24.5	******	******	0.070	2.45	0.307

***** : INSUFFICIENT DATA
NOTE : PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF OBSERVED CONCENTRATIONS
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAILTON/DAILY/SES #10
START TIME : JAN23,81 END TIME : JAN 1,82

	NITRATE AS N MG/L	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	FREE H+ LAB MG/L
# OF SAMPLES :	50.00	40.00	50.00	40.000	40.000	40.000	50.000
MAXIMUM :	6.00	5.80	2.10	0.640	0.240	1.150	0.251
MINIMUM :	0.07	0.04	0.02	0.002	0.005	0.005	0.000
RANGE :	5.93	5.76	2.08	0.637	0.235	1.145	0.251
ARITH. MEAN :	0.96	1.00	0.46	0.121	0.061	0.265	0.057
ARITH. STD. DEV :	0.95	1.10	0.43	0.135	0.053	0.281	0.059
GEOM. MEAN :	0.68	0.53	0.30	0.055	0.041	0.147	0.023
GEOM. STD. DEV. :	0.85	1.28	1.02	1.580	0.995	1.212	1.975
1ST QUARTILE :	0.39	0.19	0.13	0.022	0.025	0.065	0.014
2ND QUARTILE :	0.80	0.55	0.34	0.098	0.040	0.180	0.044
3RD QUARTILE :	1.09	1.49	0.57	0.165	0.085	0.305	0.073
VOL. WGT. MEAN :	0.55	0.52	0.29	0.077	0.044	0.170	0.042

***** : INSUFFICIENT DATA

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF OBSERVED CONCENTRATIONS
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : CHARLESTON LAKE/DAILY/AEROCHEM #11
START TIME : MAY 6,81 END TIME : OCT28,81

	PRECIP. MM	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ MG/L	SULPHATE MG/L	AMMONIUM AS N MG/L
# OF SAMPLES :	87.0	47.0	32.00	73.00	45.000	68.00	62.000
MAXIMUM :	47.4	103.0	5.72	5.65	0.252	11.00	1.440
MINIMUM :	0.2	3.2	3.56	3.48	0.033	0.30	0.001
RANGE :	47.2	99.8	2.16	2.17	0.218	10.70	1.439
ARITH. MEAN :	7.7	35.7	******	******	0.104	3.98	0.397
ARITH. STD. DEV :	9.2	24.0	******	******	0.055	2.73	0.333
GEOM. MEAN :	3.7	27.7	4.23	4.26	0.091	2.95	0.209
GEOM. STD. DEV. :	1.4	0.8	0.10	0.10	0.534	0.87	1.616
1ST QUARTILE :	1.2	15.6	3.96	3.97	0.060	1.75	0.145
2ND QUARTILE :	4.7	31.4	4.14	4.17	0.089	3.95	0.322
3RD QUARTILE :	8.9	49.2	4.41	4.52	0.138	5.17	0.530
VOL. WGT. MEAN :	******	26.4	******	******	0.081	2.92	0.291

***** : INSUFFICIENT DATA
NOTE : PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF OBSERVED CONCENTRATIONS
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : CHARLESTON LAKE/DAILY/AEROCHEM #11
START TIME : MAY 6,81 END TIME : OCT28,81

	NITRATE AS N MG/L	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	FREE H+ LAB MG/L
# OF SAMPLES :	68.00	56.00	68.00	56.000	56.000	56.000	73.000
MAXIMUM :	1.87	2.00	0.91	0.375	0.170	0.640	0.331
MINIMUM :	0.01	0.02	0.00	0.002	0.005	0.005	0.002
RANGE :	1.86	1.98	0.90	0.373	0.165	0.635	0.329
ARITH. MEAN :	0.59	0.24	0.19	0.038	0.029	0.131	0.077
ARITH. STD. DEV :	0.48	0.37	0.17	0.066	0.032	0.154	0.062
GEOM. MEAN :	0.39	0.12	0.12	0.016	0.018	0.058	0.053
GEOM. STD. DEV. :	1.01	1.15	1.06	1.294	0.941	1.426	0.995
1ST QUARTILE :	0.21	0.05	0.08	0.005	0.010	0.020	0.029
2ND QUARTILE :	0.43	0.13	0.14	0.020	0.020	0.065	0.062
3RD QUARTILE :	0.88	0.23	0.24	0.030	0.030	0.210	0.106
VOL. WGT. MEAN :	0.38	0.13	0.13	0.020	0.023	0.094	0.060

***** : INSUFFICIENT DATA

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF OBSERVED CONCENTRATIONS
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : CHARLESTON LAKE/DAILY/SES #11
START TIME : JAN26,81 END TIME : JAN 1,82

	PRECIP. MM	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ MG/L	SULPHATE MG/L	AMMONIUM AS N MG/L
# OF SAMPLES :	58.0	40.0	34.00	68.00	45.000	64.00	60.000
MAXIMUM :	20.8	71.5	5.17	7.22	0.221	16.20	2.200
MINIMUM :	0.1	7.1	3.09	3.52	0.028	0.15	0.004
RANGE :	20.7	64.4	2.08	3.70	0.194	16.05	2.196
ARITH. MEAN :	4.2	31.6	******	******	0.091	3.69	0.484
ARITH. STD. DEV :	5.0	14.3	******	******	0.046	3.15	0.480
GEOM. MEAN :	1.9	28.3	4.05	4.59	0.080	2.56	0.276
GEOM. STD. DEV. :	1.4	0.5	0.12	0.18	0.521	0.94	1.320
1ST QUARTILE :	0.6	20.4	3.61	4.07	0.063	1.30	0.147
2ND QUARTILE :	1.9	30.9	4.20	4.33	0.082	3.10	0.360
3RD QUARTILE :	6.2	40.3	4.36	5.12	0.111	5.10	0.630
VOL. WGT. MEAN :	******	24.6	******	******	0.079	2.60	0.337

***** : INSUFFICIENT DATA
NOTE : PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF OBSERVED CONCENTRATIONS
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : CHARLESTON LAKE/DAILY/SES #11
START TIME : JAN26,81 END TIME : JAN 1,82

	NITRATE AS N MG/L	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	FREE H+ LAB MG/L
# OF SAMPLES :	64.00	53.00	64.00	53.000	53.000	53.000	69.000
MAXIMUM :	8.90	5.20	2.30	1.060	0.380	1.080	0.302
MINIMUM :	0.04	0.02	0.00	0.002	0.005	0.005	0.000
RANGE :	8.86	5.18	2.30	1.057	0.375	1.075	0.302
ARITH. MEAN :	0.94	0.65	0.36	0.135	0.048	0.167	0.061
ARITH. STD. DEV :	1.23	0.99	0.46	0.208	0.062	0.201	0.064
GEOM. MEAN :	0.61	0.29	0.17	0.044	0.028	0.086	0.021
GEOM. STD. DEV. :	0.92	1.30	1.46	1.703	1.077	1.247	2.144
1ST QUARTILE :	0.36	0.11	0.08	0.015	0.010	0.030	0.008
2ND QUARTILE :	0.62	0.24	0.22	0.045	0.030	0.080	0.047
3RD QUARTILE :	1.06	0.70	0.48	0.137	0.055	0.205	0.085
VOL. WGT. MEAN :	0.58	0.34	0.21	0.072	0.028	0.114	0.050

***** : INSUFFICIENT DATA

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF OBSERVED CONCENTRATIONS
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : GRAHAM LAKE/DAILY/AEROCHEM #12
START TIME : OCT26,80 END TIME : OCT28,81

	PRECIP. MM	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ MG/L	SULPHATE MG/L	AMMONIUM AS N MG/L
# OF SAMPLES :	96.0	60.0	46.00	96.00	61.000	94.00	86.000
MAXIMUM :	58.0	88.5	6.05	6.86	0.223	11.80	2.450
MINIMUM :	0.2	3.4	3.45	3.68	0.024	0.15	0.008
RANGE :	57.8	85.1	2.60	3.18	0.199	11.65	2.442
ARITH. MEAN :	8.4	29.2	******	******	0.088	3.35	0.453
ARITH. STD. DEV :	9.0	19.7	******	******	0.045	2.31	0.438
GEOM. MEAN :	5.1	22.5	4.41	4.46	0.078	2.50	0.279
GEOM. STD. DEV. :	1.1	0.8	0.12	0.15	0.522	0.86	1.152
1ST QUARTILE :	2.6	12.9	4.10	4.03	0.055	1.55	0.161
2ND QUARTILE :	6.1	24.5	4.32	4.27	0.076	2.82	0.365
3RD QUARTILE :	11.0	42.0	4.72	4.60	0.117	4.52	0.570
VOL. WGT. MEAN :	******	21.9	******	******	0.071	2.54	0.328

***** : INSUFFICIENT DATA
NOTE : PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF OBSERVED CONCENTRATIONS
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : GRAHAM LAKE/DAILY/AEROCHEM #12
START TIME : OCT26,80 END TIME : OCT28,81

	NITRATE AS N MG/L	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	FREE H+ LAB MG/L
# OF SAMPLES :	94.00	77.00	93.00	77.000	75.000	77.000	96.000
MAXIMUM :	3.30	2.70	1.35	0.575	0.470	0.840	0.209
MINIMUM :	0.00	0.00	0.00	0.002	0.005	0.005	0.000
RANGE :	3.30	2.69	1.35	0.572	0.465	0.835	0.209
ARITH. MEAN :	0.63	0.35	0.28	0.067	0.056	0.123	0.063
ARITH. STD. DEV :	0.54	0.41	0.26	0.093	0.070	0.168	0.050
GEOM. MEAN :	0.39	0.19	0.19	0.031	0.034	0.067	0.031
GEOM. STD. DEV. :	1.20	1.21	0.99	1.357	1.038	1.120	1.784
1ST QUARTILE :	0.22	0.09	0.11	0.015	0.015	0.030	0.025
2ND QUARTILE :	0.49	0.21	0.20	0.032	0.040	0.075	0.054
3RD QUARTILE :	0.95	0.44	0.31	0.077	0.070	0.115	0.093
VOL. WGT. MEAN :	0.42	0.19	0.16	0.037	0.034	0.062	0.051

***** : INSUFFICIENT DATA

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF OBSERVED CONCENTRATIONS
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : GRAHAM LAKE/DAILY/SES #12
START TIME : FEB21.81 END TIME : JAN 1.82

	PRECIP. MM	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ MG/L	SULPHATE MG/L	AMMONIUM AS N MG/L
# OF SAMPLES :	52.0	34.0	27.00	53.00	36.000	49.00	49.000
MAXIMUM :	24.6	68.0	6.83	7.26	0.178	20.00	5.350
MINIMUM :	0.1	5.2	3.25	3.40	0.029	0.02	0.004
RANGE :	24.5	62.8	3.58	3.86	0.150	19.97	5.346
ARITH. MEAN :	5.7	31.5	******	******	0.073	4.40	0.672
ARITH. STD. DEV :	5.1	17.7	******	******	0.038	3.96	0.849
GEOM. MEAN :	3.3	26.4	4.40	4.78	0.065	2.78	0.353
GEOM. STD. DEV. :	1.3	0.6	0.17	0.19	0.506	1.17	1.402
1ST QUARTILE :	1.5	15.7	3.94	4.17	0.045	1.50	0.179
2ND QUARTILE :	4.5	26.9	4.31	4.57	0.062	3.52	0.430
3RD QUARTILE :	8.7	45.1	4.68	4.93	0.096	5.65	0.730
VOL. WGT. MEAN :	******	21.9	******	******	0.056	3.04	0.543

***** : INSUFFICIENT DATA
NOTE : PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF OBSERVED CONCENTRATIONS
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : GRAHAM LAKE/DAILY/SES #12
START TIME : FEB21,81 END TIME : JAN 1,82

	NITRATE AS N MG/L	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	FREE H+ LAB MG/L
# OF SAMPLES :	49.00	43.00	49.00	43.000	43.000	43.000	53.000
MAXIMUM :	8.60	6.60	2.60	1.400	0.800	2.000	0.398
MINIMUM :	0.01	0.00	0.02	0.002	0.005	0.020	0.000
RANGE :	8.59	6.60	2.58	1.397	0.795	1.980	0.398
ARITH. MEAN :	0.98	1.02	0.40	0.210	0.091	0.249	0.051
ARITH. STD. DEV :	1.28	1.40	0.46	0.292	0.139	0.341	0.076
GEOM. MEAN :	0.60	0.44	0.25	0.077	0.045	0.144	0.013
GEOM. STD. DEV. :	1.11	1.47	1.04	1.712	1.215	1.026	2.352
1ST QUARTILE :	0.36	0.15	0.13	0.025	0.020	0.070	0.008
2ND QUARTILE :	0.63	0.54	0.24	0.092	0.035	0.125	0.023
3RD QUARTILE :	1.02	1.22	0.52	0.243	0.100	0.295	0.065
VOL. WGT. MEAN :	0.73	0.72	0.26	0.152	0.069	0.174	0.038

***** : INSUFFICIENT DATA

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF OBSERVED CONCENTRATIONS
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : FORBES TWSP/DAILY/AEROCHEM #13
START TIME : SEP24,81 END TIME : OCT 1,81

	PRECIP. MM	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ MG/L	SULPHATE MG/L	AMMONIUM AS N MG/L
# OF SAMPLES :	5.0	3.0	0.0	5.00	2.000	5.00	3.000
MAXIMUM :	15.6	74.5	******	5.98	0.057	8.35	0.740
MINIMUM :	1.0	13.0	******	3.82	0.053	0.10	0.066
RANGE :	14.6	61.5	******	2.16	0.004	8.25	0.674
ARITH. MEAN :	7.4	34.1	******	******	0.055	3.22	0.323
ARITH. STD. DEV :	7.3	35.0	******	******	0.003	3.43	0.364
GEOM. MEAN :	4.3	24.3	******	4.54	0.055	1.47	0.200
GEOM. STD. DEV. :	1.2	1.0	******	0.17	0.054	1.72	1.221
1ST QUARTILE :	1.5	******	******	3.97	******	0.65	******
2ND QUARTILE :	2.6	******	******	4.30	******	1.27	******
3RD QUARTILE :	9.1	******	******	4.54	******	3.23	******
VOL. WGT. MEAN :	******	18.5	******	******	0.047	2.11	0.164

***** : INSUFFICIENT DATA
NOTE : PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF OBSERVED CONCENTRATIONS
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : FORBES TWSP/DAILY/AEROCHEM #13
START TIME : SEP24,81 END TIME : OCT 1,81

	NITRATE AS N MG/L	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	FREE H+ LAB MG/L
# OF SAMPLES :	5.00	4.00	5.00	4.000	4.000	4.000	5.000
MAXIMUM :	0.86	0.71	0.22	0.075	0.050	0.230	0.151
MINIMUM :	0.00	0.05	0.00	0.002	0.005	0.040	0.001
RANGE :	0.85	0.66	0.21	0.072	0.045	0.190	0.150
ARITH. MEAN :	0.38	0.31	0.10	0.037	0.031	0.117	0.057
ARITH. STD. DEV :	0.40	0.31	0.09	0.032	0.019	0.084	0.059
GEOM. MEAN :	0.14	0.19	0.04	0.021	0.023	0.096	0.025
GEOM. STD. DEV. :	2.09	1.22	1.89	1.517	1.050	0.758	1.913
1ST QUARTILE :	0.05	0.07	0.00	0.011	0.017	0.055	0.013
2ND QUARTILE :	0.13	0.25	0.06	0.035	0.035	0.100	0.029
3RD QUARTILE :	0.47	0.55	0.13	0.062	0.045	0.180	0.055
VOL. WGT. MEAN :	0.23	0.14	0.11	0.018	0.029	0.161	0.043

***** : INSUFFICIENT DATA

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF OBSERVED CONCENTRATIONS
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : FORBES TWSP/DAILY/SES #13
START TIME : OCT 5.81 END TIME : DEC31.81

	PRECIP. MM	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ MG/L	SULPHATE MG/L	AMMONIUM AS N MG/L
# OF SAMPLES :	31.0	17.0	10.00	33.00	16.000	26.00	21.000
MAXIMUM :	18.9	62.5	5.20	6.02	0.099	8.70	2.500
MINIMUM :	0.1	3.6	3.81	3.56	0.033	0.10	0.004
RANGE :	18.8	58.9	1.39	2.46	0.066	8.60	2.496
ARITH. MEAN :	3.4	17.9	******	******	0.064	1.56	0.319
ARITH. STD. DEV :	4.6	14.3	******	******	0.024	1.98	0.558
GEOM. MEAN :	1.6	13.8	4.47	4.52	0.060	0.85	0.123
GEOM. STD. DEV. :	1.3	0.7	0.10	0.10	0.400	1.17	1.579
1ST QUARTILE :	0.5	7.2	4.22	4.26	0.041	0.40	0.072
2ND QUARTILE :	1.6	11.3	4.37	4.47	0.059	0.90	0.147
3RD QUARTILE :	3.5	23.3	4.62	4.80	0.091	1.80	0.260
VOL. WGT. MEAN :	******	11.9	******	******	0.051	1.10	0.130

***** : INSUFFICIENT DATA
NOTE : PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF OBSERVED CONCENTRATIONS
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : FORBES TWSP/DAILY/SES #13
START TIME : OCT 5.81 END TIME : DEC31.81

	NITRATE AS N MG/L	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	FREE H+ LAB MG/L
# OF SAMPLES :	26.00	20.00	26.00	20.000	20.000	20.000	33.000
MAXIMUM :	2.60	0.45	0.60	0.055	0.320	0.420	0.275
MINIMUM :	0.01	0.01	0.00	0.002	0.005	0.005	0.001
RANGE :	2.59	0.44	0.59	0.052	0.315	0.415	0.274
ARITH. MEAN :	0.45	0.13	0.09	0.014	0.058	0.081	0.047
ARITH. STD. DEV :	0.58	0.14	0.13	0.017	0.091	0.106	0.054
GEOM. MEAN :	0.26	0.07	0.03	0.007	0.023	0.035	0.028
GEOM. STD. DEV. :	1.11	1.11	1.55	1.127	1.367	1.411	1.107
1ST QUARTILE :	0.13	0.03	0.00	0.002	0.008	0.010	0.015
2ND QUARTILE :	0.25	0.06	0.04	0.005	0.020	0.030	0.033
3RD QUARTILE :	0.54	0.14	0.09	0.015	0.060	0.130	0.052
VOL. WGT. MEAN :	0.23	0.06	0.03	0.006	0.025	0.034	0.030

***** : INSUFFICIENT DATA

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF OBSERVED CONCENTRATIONS
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : QUETICO CENTRE/DAILY/SFS #14
START TIME : OCT17.81 END TIME : DEC31.81

	PRECIP. MM	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ MG/L	SULPHATE MG/L	AMMONIUM AS N MG/L
# OF SAMPLES :	15.0	15.0	4.00	27.00	10.000	25.00	15.000
MAXIMUM :	12.0	119.0	5.00	5.74	0.098	14.00	0.910
MINIMUM :	0.5	6.1	4.35	3.82	0.045	0.15	0.006
RANGE :	11.5	112.9	0.65	1.92	0.053	13.85	0.904
ARITH. MEAN :	3.9	22.9	******	******	0.065	1.40	0.274
ARITH. STD. DEV :	3.2	27.6	******	******	0.018	2.70	0.224
GEOM. MEAN :	2.8	16.6	4.69	4.66	0.063	0.73	0.167
GEOM. STD. DEV. :	0.9	0.7	0.07	0.08	0.267	1.03	1.339
1ST QUARTILE :	1.1	9.8	4.44	4.33	0.049	0.30	0.098
2ND QUARTILE :	3.4	14.1	4.73	4.65	0.061	0.75	0.254
3RD QUARTILE :	4.4	22.8	4.96	4.89	0.077	1.55	0.327
VOL. WGT. MEAN :	******	13.1	******	******	0.055	0.66	0.160

***** : INSUFFICIENT DATA
NOTE : PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF OBSERVED CONCENTRATIONS
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : QUETICO CENTRE/DAILY/SES #14
START TIME : OCT17,81 END TIME : DEC31,81

	NITRATE AS N MG/L	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	FREE H+ LAB MG/L
# OF SAMPLES :	25.00	19.00	25.00	19.000	19.000	19.000	27.000
MAXIMUM :	3.57	1.45	0.32	0.155	0.180	0.250	0.151
MINIMUM :	0.08	0.00	0.00	0.002	0.005	0.010	0.002
RANGE :	3.49	1.44	0.31	0.152	0.175	0.240	0.150
ARITH. MEAN :	0.51	0.17	0.11	0.015	0.036	0.065	0.030
ARITH. STD. DEV :	0.68	0.32	0.08	0.035	0.048	0.067	0.030
GEOM. MEAN :	0.34	0.08	0.08	0.006	0.021	0.041	0.021
GEOM. STD. DEV. :	0.84	1.25	1.03	1.167	0.979	0.992	0.894
1ST QUARTILE :	0.21	0.03	0.04	0.002	0.010	0.020	0.012
2ND QUARTILE :	0.31	0.05	0.08	0.002	0.020	0.035	0.021
3RD QUARTILE :	0.54	0.17	0.14	0.010	0.030	0.085	0.040
VOL. WGT. MEAN :	0.37	0.07	0.05	0.007	0.017	0.033	0.026

***** : INSUFFICIENT DATA

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF OBSERVED CONCENTRATIONS
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : LAC LA CROIX/DAILY/AEROCHEM #15
START TIME : SEP24,81 END TIME : SEP28,81

	PRECIP. MM	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ MG/L	SULPHATE MG/L	AMMONIUM AS N MG/L
# OF SAMPLES :	3.0	1.0	1.00	3.00	1.000	3.00	2.000
MAXIMUM :	13.1	6.2	4.55	5.06	0.036	7.60	0.460
MINIMUM :	1.0	6.2	4.55	4.14	0.035	0.35	0.086
RANGE :	12.1	0.0	0.0	0.92	0.0	7.25	0.374
ARITH. MEAN :	5.3	******	******	******	******	3.82	0.273
ARITH. STD. DEV :	6.7	******	******	******	******	3.64	0.264
GEOM. MEAN :	2.9	******	******	4.51	******	2.10	0.199
GEOM. STD. DEV. :	1.3	******	******	0.10	******	1.60	1.186
1ST QUARTILE :	******	******	******	******	******	******	******
2ND QUARTILE :	******	******	******	******	******	******	******
3RD QUARTILE :	******	******	******	******	******	******	******
VOL. WGT. MEAN :	******	******	******	******	******	1.18	0.125

***** : INSUFFICIENT DATA
NOTE : PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF OBSERVED CONCENTRATIONS
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : LAC LA CROIX/DAILY/AEROCHEM #15
START TIME : SEP24.81 END TIME : SEP28.81

	NITRATE AS N MG/L	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	FREE H+ LAB MG/L
# OF SAMPLES :	3.00	1.00	3.00	1.000	1.000	1.000	3.000
MAXIMUM :	0.52	0.06	0.52	0.005	0.060	0.030	0.072
MINIMUM :	0.07	0.06	0.04	0.005	0.060	0.030	0.009
RANGE :	0.45	0.0	0.48	0.0	0.0	0.0	0.064
ARITH. MEAN :	0.37	******	0.23	******	******	******	0.041
ARITH. STD. DEV :	0.26	******	0.25	******	******	******	0.032
GEOM. MEAN :	0.27	******	0.14	******	******	******	0.030
GEOM. STD. DEV. :	1.16	******	1.28	******	******	******	1.099
1ST QUARTILE :	******	******	******	******	******	******	******
2ND QUARTILE :	******	******	******	******	******	******	******
3RD QUARTILE :	******	******	******	******	******	******	******
VOL. WGT. MEAN :	0.15	******	0.08	******	******	******	0.017

***** : INSUFFICIENT DATA

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF OBSERVED CONCENTRATIONS
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : LAC LA CROIX/DAILY/SES #15
START TIME : NOV18.81 END TIME : DEC12.81

	PRECIP. MM	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ MG/L	SULPHATE MG/L	AMMONIUM AS N MG/L
# OF SAMPLES :	4.0	3.0	0.0	6.00	3.000	4.00	5.000
MAXIMUM :	10.0	31.2	******	4.83	0.107	2.35	1.000
MINIMUM :	1.3	11.6	******	4.21	0.068	0.35	0.050
RANGE :	8.7	19.6	******	0.62	0.039	2.00	0.950
ARITH. MEAN :	5.6	22.6	******	******	0.088	1.11	0.373
ARITH. STD. DEV :	3.7	10.0	******	******	0.020	0.87	0.405
GEOM. MEAN :	4.4	20.8	******	4.43	0.087	0.88	0.202
GEOM. STD. DEV. :	0.9	0.5	******	0.05	0.232	0.80	1.321
1ST QUARTILE :	2.8	******	******	4.21	******	0.52	0.055
2ND QUARTILE :	5.6	******	******	4.38	******	0.88	0.133
3RD QUARTILE :	8.5	******	******	4.53	******	1.70	0.378
VOL. WGT. MEAN :	******	22.7	******	******	0.088	1.38	0.306

***** : INSUFFICIENT DATA
NOTE : PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF OBSERVED CONCENTRATIONS
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : LAC LA CROIX/DAILY/SES #15
START TIME : NOV18,81 END TIME : DEC12,81

	NITRATE AS N MG/L	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	FREE H+ LAB MG/L
# OF SAMPLES :	4.00	4.00	4.00	4.000	4.000	4.000	6.000
MAXIMUM :	0.85	0.27	0.15	0.015	0.050	0.120	0.062
MINIMUM :	0.17	0.02	0.02	0.002	0.010	0.010	0.015
RANGE :	0.68	0.25	0.13	0.012	0.040	0.110	0.047
ARITH. MEAN :	0.52	0.15	0.09	0.009	0.025	0.087	0.041
ARITH. STD. DEV :	0.34	0.12	0.05	0.005	0.019	0.052	0.019
GEOM. MEAN :	0.43	0.10	0.07	0.008	0.020	0.062	0.036
GEOM. STD. DEV. :	0.77	1.18	0.87	0.784	0.809	1.214	0.566
1ST QUARTILE :	0.24	0.05	0.05	0.006	0.010	0.060	0.019
2ND QUARTILE :	0.53	0.15	0.09	0.010	0.020	0.110	0.042
3RD QUARTILE :	0.81	0.25	0.12	0.012	0.040	0.115	0.054
VOL. WGT. MEAN :	0.63	0.17	0.06	0.010	0.032	0.077	0.047

***** : INSUFFICIENT DATA

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF OBSERVED CONCENTRATIONS
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : FERNBERG/DAILY/SES #16
START TIME : OCT 2,81 END TIME : DEC31,81

	PRECIP. MM	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ MG/L	SULPHATE MG/L	AMMONIUM AS N MG/L
# OF SAMPLES :	13.0	18.0	3.00	24.00	17.000	24.00	21.000
MAXIMUM :	14.0	26.5	5.16	6.19	0.090	13.30	0.312
MINIMUM :	1.0	4.7	4.37	3.90	0.039	0.10	0.001
RANGE :	13.0	21.8	0.79	2.29	0.051	13.20	0.311
ARITH. MEAN :	6.1	13.8	******	******	0.063	1.86	0.111
ARITH. STD. DEV :	4.0	7.5	******	******	0.016	3.15	0.099
GEOM. MEAN :	5.0	11.8	4.71	4.66	0.061	0.89	0.054
GEOM. STD. DEV. :	0.7	0.6	0.08	0.11	0.266	1.15	1.656
1ST QUARTILE :	3.3	6.2	******	4.31	0.050	0.52	0.033
2ND QUARTILE :	5.3	13.0	******	4.60	0.059	0.82	0.092
3RD QUARTILE :	5.9	19.7	******	5.01	0.075	1.38	0.115
VOL. WGT. MEAN :	******	12.2	******	******	0.059	0.78	0.116

***** : INSUFFICIENT DATA
NOTE : PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF OBSERVED CONCENTRATIONS
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : FERNBERG/DAILY/SES #16
START TIME : OCT 2,81 END TIME : DEC31,81

	NITRATE AS N MG/L	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	FREE H+ LAB MG/L
# OF SAMPLES :	24.00	21.00	24.00	21.000	21.000	21.000	24.000
MAXIMUM :	2.00	0.38	0.42	0.145	0.070	0.250	0.126
MINIMUM :	0.00	0.00	0.00	0.002	0.005	0.005	0.001
RANGE :	1.99	0.37	0.41	0.142	0.065	0.245	0.125
ARITH. MEAN :	0.41	0.07	0.08	0.014	0.023	0.056	0.033
ARITH. STD. DEV :	0.53	0.08	0.11	0.031	0.017	0.066	0.029
GEOM. MEAN :	0.21	0.04	0.04	0.006	0.017	0.031	0.020
GEOM. STD. DEV. :	1.35	1.15	1.27	1.119	0.843	1.115	1.195
1ST QUARTILE :	0.12	0.02	0.02	0.002	0.008	0.015	0.010
2ND QUARTILE :	0.24	0.05	0.04	0.004	0.020	0.025	0.025
3RD QUARTILE :	0.50	0.07	0.07	0.010	0.035	0.065	0.050
VOL. WGT. MEAN :	0.26	0.08	0.03	0.014	0.023	0.058	0.025

***** : INSUFFICIENT DATA

PART IV

DAILY PRECIPITATION DEPOSITION SUMMARY STATISTICS

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF DEPOSITION
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : MELBOURNE/DAILY/AEROCHEM #01
START TIME : NOV 4,80 END TIME : NOV22,81

	PRECIP. MM	FREE H+ FIELD MG/M**2	FREE H+ LAB MG/M**2	TOTAL H+ MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2
# OF SAMPLES :	91.0	19.00	83.00	42.000	74.00	74.00
MAXIMUM :	45.2	2.27	2.01	3.164	98.90	27.84
MINIMUM :	0.1	0.01	0.00	0.192	1.20	0.04
RANGE :	45.1	2.25	2.01	2.972	97.70	27.80
ARITH. MEAN :	6.1	0.96	0.47	1.012	25.29	4.36
ARITH. STD. DEV :	6.9	0.63	0.50	0.640	20.17	3.99
GEOM. MEAN :	3.4	0.63	0.18	0.831	18.33	2.95
GEOM. STD. DEV. :	1.2	1.31	2.03	0.654	0.87	1.04
1ST QUARTILE :	1.4	0.45	0.10	0.543	11.53	1.96
2ND QUARTILE :	3.7	0.88	0.31	0.834	18.20	3.21
3RD QUARTILE :	8.2	1.18	0.65	1.469	37.51	5.55

***** : INSUFFICIENT DATA
NOTE : PRECIP. VALUES REPRESENT GAUGE DEPTHS

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF DEPOSITION
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : MELBOURNE/DAILY/AEROCHEM #01
START TIME : NOV 4,80 END TIME : NOV22,81

	CALCIUM MG/M**2	CHLORIDE MG/M**2	MAGNESIM MG/M**2	POTASSIM MG/M**2	SODIUM MG/M**2	AMMONIUM AS N MG/M**2
# OF SAMPLES :	59.00	73.00	59.000	59.000	59.000	55.000
MAXIMUM :	10.68	6.53	1.666	5.670	5.304	9.408
MINIMUM :	0.18	0.23	0.013	0.034	0.058	0.190
RANGE :	10.50	6.30	1.653	5.636	5.246	9.218
ARITH. MEAN :	2.36	1.60	0.375	0.449	1.061	3.595
ARITH. STD. DEV :	2.15	1.06	0.366	0.785	0.772	2.296
GEOM. MEAN :	1.60	1.32	0.212	0.277	0.842	2.807
GEOM. STD. DEV. :	0.92	0.64	1.240	0.867	0.737	0.784
1ST QUARTILE :	0.80	0.82	0.116	0.172	0.511	1.666
2ND QUARTILE :	1.47	1.31	0.233	0.245	0.971	3.001
3RD QUARTILE :	3.44	1.92	0.509	0.465	1.388	5.100

***** : INSUFFICIENT DATA

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF DEPOSITION
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : MELBOURNE/DAILY/SES #01
START TIME : FEB 6,81 END TIME : JAN 1,82

	PRECIP. MM	FREE H+ FIELD MG/M**2	FREE H+ LAB MG/M**2	TOTAL H+ MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2
# OF SAMPLES :	47.0	17.00	47.00	27.000	42.00	42.00
MAXIMUM :	31.6	1.75	2.95	3.982	127.98	17.38
MINIMUM :	0.4	0.01	0.00	0.083	0.80	0.31
RANGE :	31.2	1.74	2.95	3.899	127.18	17.07
ARITH. MEAN :	6.8	0.53	0.30	0.914	23.47	4.39
ARITH. STD. DEV :	8.2	0.54	0.52	0.840	25.77	3.79
GEOM. MEAN :	3.3	0.26	0.03	0.580	12.80	2.72
GEOM. STD. DEV. :	1.3	1.47	3.19	1.061	1.23	1.11
1ST QUARTILE :	1.2	0.11	0.00	0.187	5.88	1.19
2ND QUARTILE :	2.8	0.26	0.07	0.784	15.27	3.54
3RD QUARTILE :	8.8	0.83	0.45	1.307	33.76	7.17

***** : INSUFFICIENT DATA
NOTE : PRECIP. VALUES REPRESENT GAUGE DEPTHS

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF DEPOSITION
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : MELBOURNE/DAILY/SES #01
START TIME : FEB 6,81 END TIME : JAN 1,82

	CALCIUM MG/M**2	CHLORIDE MG/M**2	MAGNESIM MG/M**2	POTASSIM MG/M**2	SODIUM MG/M**2	AMMONIUM AS N MG/M**2
# OF SAMPLES :	36.00	42.00	36.000	36.000	36.000	41.000
MAXIMUM :	11.76	9.90	1.960	6.342	42.750	45.738
MINIMUM :	0.24	0.03	0.048	0.027	0.112	0.268
RANGE :	11.52	9.87	1.912	6.315	42.638	45.470
ARITH. MEAN :	3.06	1.75	0.539	0.776	2.124	5.009
ARITH. STD. DEV :	3.03	2.07	0.533	1.550	7.056	8.153
GEOM. MEAN :	1.85	0.96	0.327	0.257	0.647	2.564
GEOM. STD. DEV. :	1.08	1.23	1.068	1.391	1.225	1.134
1ST QUARTILE :	0.89	0.44	0.156	0.086	0.278	1.267
2ND QUARTILE :	2.15	1.15	0.348	0.240	0.524	2.607
3RD QUARTILE :	4.15	2.10	0.589	0.596	1.241	4.473

***** : INSUFFICIENT DATA

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF DEPOSITION
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : LONGWOODS/DAILY/AEROCHEM #02
START TIME : JUL15,80 END TIME : NOV21,81

	PRECIP. MM	FREE H+ FIELD MG/M**2	FREE H+ LAB MG/M**2	TOTAL H+ MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2
# OF SAMPLES :	130.0	30.00	120.00	67.000	108.00	108.00
MAXIMUM :	53.0	3.19	4.19	4.536	199.20	23.63
MINIMUM :	0.2	0.03	0.00	0.108	0.91	0.04
RANGE :	52.8	3.17	4.19	4.427	198.29	23.59
ARITH. MEAN :	8.0	1.05	0.62	1.315	34.94	5.08
ARITH. STD. DEV :	8.8	0.83	0.81	1.138	37.59	4.66
GEOM. MEAN :	4.4	0.71	0.18	0.886	20.38	3.19
GEOM. STD. DEV. :	1.2	1.06	2.33	0.951	1.12	1.13
1ST QUARTILE :	2.1	0.47	0.10	0.407	9.80	2.03
2ND QUARTILE :	5.1	0.82	0.29	0.968	22.20	3.88
3RD QUARTILE :	10.3	1.46	0.81	1.750	44.62	6.28

***** : INSUFFICIENT DATA
NOTE : PRECIP. VALUES REPRESENT GAUGE DEPTHS

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF DEPOSITION
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : LONGWOODS/DAILY/AEROCHEM #02
START TIME : JUL15.80 END TIME : NOV21.81

	CALCIUM MG/M**2	CHLORIDE MG/M**2	MAGNESIM MG/M**2	POTASSIM MG/M**2	SODIUM MG/M**2	AMMONIUM AS N MG/M**2
# OF SAMPLES :	92.00	108.00	90.000	92.000	92.000	******
MAXIMUM :	20.59	8.48	3.042	2.912	8.970	19.422
MINIMUM :	0.34	0.08	0.015	0.013	0.021	0.031
RANGE :	20.25	8.39	3.027	2.899	8.949	19.391
ARITH. MEAN :	3.02	1.69	0.505	0.462	0.883	3.940
ARITH. STD. DEV :	2.85	1.37	0.477	0.526	1.188	3.906
GEOM. MEAN :	2.16	1.20	0.335	0.291	0.507	2.426
GEOM. STD. DEV. :	0.82	0.90	0.982	0.986	1.107	1.107
1ST QUARTILE :	1.14	0.69	0.177	0.155	0.272	1.475
2ND QUARTILE :	2.26	1.33	0.348	0.291	0.483	2.619
3RD QUARTILE :	3.86	2.21	0.695	0.519	1.173	4.778

***** : INSUFFICIENT DATA

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF DEPOSITION
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : LONGWOODS/DAILY/SES #02
START TIME : JAN28,81 END TIME : JAN 1,82

	PRECIP. MM	FREE H+ FIELD MG/M**2	FREE H+ LAB MG/M**2	TOTAL H+ MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2
# OF SAMPLES :	65.0	25.00	61.00	43.000	59.00	59.00
MAXIMUM :	31.4	2.80	2.93	3.881	120.89	17.58
MINIMUM :	0.1	0.00	0.00	0.058	0.28	0.03
RANGE :	31.3	2.80	2.93	3.823	120.61	17.55
ARITH. MEAN :	5.6	0.49	0.21	0.555	21.65	4.00
ARITH. STD. DEV :	6.9	0.70	0.45	0.703	26.02	4.04
GEOM. MEAN :	2.8	0.11	0.01	0.321	10.46	2.11
GEOM. STD. DEV. :	1.3	2.52	3.54	1.054	1.37	1.34
1ST QUARTILE :	1.0	0.03	0.00	0.132	4.99	0.72
2ND QUARTILE :	3.2	0.28	0.03	0.303	11.80	2.85
3RD QUARTILE :	6.5	0.49	0.16	0.687	29.24	5.69

***** : INSUFFICIENT DATA
NOTE : PRECIP. VALUES REPRESENT GAUGE DEPTHS

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF DEPOSITION
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : LONGWOODS/DAILY/SES #02
START TIME : JAN28,81 END TIME : JAN 1,82

	CALCIUM MG/M**2	CHLORIDE MG/M**2	MAGNESIM MG/M**2	POTASSIM MG/M**2	SODIUM MG/M**2	AMMONIUM AS N MG/M**2
# OF SAMPLES :	53.00	59.00	54.000	54.000	54.000	58.000
MAXIMUM :	94.50	7.85	9.600	3.240	5.966	16.434
MINIMUM :	0.28	0.02	0.037	0.012	0.054	0.031
RANGE :	94.22	7.83	9.563	3.228	5.912	16.403
ARITH. MEAN :	9.89	1.63	1.353	0.516	0.876	3.110
ARITH. STD. DEV :	17.78	1.57	1.980	0.657	1.091	3.386
GEOM. MEAN :	3.64	0.88	0.573	0.265	0.494	1.631
GEOM. STD. DEV. :	1.41	1.35	1.371	1.250	1.132	1.332
1ST QUARTILE :	1.31	0.37	0.224	0.097	0.160	0.646
2ND QUARTILE :	3.23	1.24	0.534	0.305	0.630	2.162
3RD QUARTILE :	7.96	2.24	1.502	0.580	1.073	4.514

***** : INSUFFICIENT DATA

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF DEPOSITION
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : NORTH EASTHOPE/DAILY/AEROCHEM #03
START TIME : NOV 2.80 END TIME : DEC 6.81

	PRECIP. MM	FREE H+ FIELD MG/M**2	FREE H+ LAB MG/M**2	TOTAL H+ MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2
# OF SAMPLES :	119.0	20.00	108.00	50.000	95.00	95.00
MAXIMUM :	60.5	2.61	4.05	5.210	217.50	19.00
MINIMUM :	0.0	0.01	0.00	0.046	0.28	0.01
RANGE :	60.5	2.60	4.05	5.164	217.22	18.99
ARITH. MEAN :	6.3	0.81	0.45	1.315	32.34	4.08
ARITH. STD. DEV :	8.7	0.68	0.71	1.212	40.57	3.82
GEOM. MEAN :	3.0	0.46	0.05	0.818	15.05	2.29
GEOM. STD. DEV. :	1.3	1.50	3.22	1.091	1.44	1.37
1ST QUARTILE :	1.2	0.38	0.00	0.355	6.66	1.48
2ND QUARTILE :	3.2	0.66	0.17	1.054	20.69	2.84
3RD QUARTILE :	7.1	1.13	0.54	1.836	36.72	5.43

***** : INSUFFICIENT DATA
NOTE : PRECIP. VALUES REPRESENT GAUGE DEPTHS

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF DEPOSITION
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : NORTH EASTHOPE/DAILY/AFROCHEM #03
START TIME : NOV 2,80 END TIME : DEC 6,81

	CALCIUM MG/M**2	CHLORIDE MG/M**2	MAGNESIM MG/M**2	POTASSIM MG/M**2	SODIUM MG/M**2	AMMONIUM AS N MG/M**2
# OF SAMPLES :	68.00	95.00	68.000	67.000	68.000	77.000
MAXIMUM :	23.32	31.36	4.312	29.400	12.348	******
MINIMUM :	0.21	0.02	0.050	0.012	0.034	0.004
RANGE :	23.12	31.34	4.262	29.388	12.314	******
ARITH. MEAN :	3.35	1.69	0.646	0.898	0.632	7.067
ARITH. STD. DEV :	3.88	3.72	0.816	3.628	1.486	20.587
GEOM. MEAN :	2.09	0.73	0.374	0.244	0.346	2.510
GEOM. STD. DEV. :	0.98	1.31	1.039	1.377	0.975	1.633
1ST QUARTILE :	1.06	0.37	0.175	0.105	0.163	1.621
2ND QUARTILE :	2.18	0.85	0.376	0.246	0.384	3.208
3RD QUARTILE :	4.12	1.67	0.716	0.512	0.681	5.884

***** : INSUFFICIENT DATA

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF DEPOSITION
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : NORTH EASTHOPE/DAILY/SES #03
START TIME : JAN17,81 END TIME : JAN 1,82

	PRECIP. MM	FREE H+ FIELD MG/M**2	FREE H+ LAB MG/M**2	TOTAL H+ MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2
# OF SAMPLES :	94.0	23.00	82.00	36.000	75.00	75.00
MAXIMUM :	28.7	1.66	1.20	2.027	73.60	10.58
MINIMUM :	0.0	0.00	0.00	0.045	0.44	0.04
RANGE :	28.7	1.66	1.20	1.983	73.16	10.54
ARITH. MEAN :	3.1	0.46	0.13	0.540	10.79	2.09
ARITH. STD. DEV :	4.9	0.43	0.25	0.509	15.04	2.61
GEOM. MEAN :	1.0	0.17	0.01	0.320	4.38	0.94
GEOM. STD. DEV. :	1.6	2.12	3.52	1.122	1.40	1.42
1ST QUARTILE :	0.3	0.06	0.00	0.106	1.24	0.35
2ND QUARTILE :	0.9	0.37	0.01	0.321	3.64	1.08
3RD QUARTILE :	3.4	0.66	0.11	0.817	12.45	2.42

***** : INSUFFICIENT DATA
NOTE : PRECIP. VALUES REPRESENT GAUGE DEPTHS

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF DEPOSITION
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : NORTH EASTHOPE/DAILY/SES #03
START TIME : JAN17.81 END TIME : JAN 1.82

	CALCIUM MG/M**2	CHLORIDE MG/M**2	MAGNESIM MG/M**2	POTASSIM MG/M**2	SODIUM MG/M**2	AMMONIUM AS N MG/M**2
# OF SAMPLES :	51.00	75.00	51.000	52.000	52.000	62.000
MAXIMUM :	20.44	13.76	4.745	28.000	11.200	96.000
MINIMUM :	0.09	0.05	0.020	0.009	0.020	0.050
RANGE :	20.35	13.71	4.725	27.991	11.180	95.950
ARITH. MEAN :	3.09	0.98	0.558	0.729	0.779	3.556
ARITH. STD. DEV :	4.42	1.69	0.874	3.860	1.703	12.076
GEOM. MEAN :	1.35	0.54	0.231	0.133	0.341	1.325
GEOM. STD. DEV. :	1.35	1.06	1.357	1.314	1.164	1.239
1ST QUARTILE :	0.42	0.27	0.065	0.048	0.161	0.506
2ND QUARTILE :	1.25	0.56	0.190	0.143	0.322	1.409
3RD QUARTILE :	3.69	0.97	0.707	0.271	0.596	3.178

***** : INSUFFICIENT DATA

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF DEPOSITION
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : WELLESLEY/DAILY/AEROCHEM #04
START TIME : MAY 8,81 END TIME : NOV27,81

	PRECIP. MM	FREE H+ FIELD MG/M**2	FREE H+ LAB MG/M**2	TOTAL H+ MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2
# OF SAMPLES :	67.0	13.00	63.00	36.000	59.00	59.00
MAXIMUM :	57.2	3.07	3.29	4.519	133.65	16.02
MINIMUM :	0.2	0.38	0.00	0.096	0.52	0.03
RANGE :	57.0	2.70	3.29	4.422	133.13	15.99
ARITH. MEAN :	8.9	1.13	0.64	1.439	34.45	4.28
ARITH. STD. DEV :	11.1	0.92	0.78	1.097	34.58	3.89
GEOM. MEAN :	4.6	0.85	0.21	1.042	19.56	2.53
GEOM. STD. DEV. :	1.3	0.77	2.05	0.903	1.20	1.22
1ST QUARTILE :	2.1	0.42	0.08	0.725	9.47	1.37
2ND QUARTILE :	5.1	0.68	0.37	1.134	20.52	2.92
3RD QUARTILE :	11.8	1.43	0.81	1.973	46.51	5.94

***** : INSUFFICIENT DATA
NOTE : PRECIP. VALUES REPRESENT GAUGE DEPTHS

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF DEPOSITION
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : WELLESLEY/DAILY/AEROCHEM #04
START TIME : MAY 8,81 END TIME : NOV27,81

	CALCIUM MG/M**2	CHLORIDE MG/M**2	MAGNESIM MG/M**2	POTASSIM MG/M**2	SODIUM MG/M**2	AMMONIUM AS N MG/M**2
# OF SAMPLES :	50.00	59.00	50.000	49.000	50.000	54.000
MAXIMUM :	11.90	12.70	6.440	1.581	2.024	17.286
MINIMUM :	0.20	0.01	0.026	0.018	0.020	0.285
RANGE :	11.70	12.69	6.414	1.563	2.004	17.000
ARITH. MEAN :	2.06	1.28	0.499	0.232	0.357	4.073
ARITH. STD. DEV :	2.00	1.91	0.942	0.272	0.410	3.470
GEOM. MEAN :	1.41	0.56	0.251	0.153	0.222	2.814
GEOM. STD. DEV. :	0.90	1.41	1.119	0.915	1.003	0.939
1ST QUARTILE :	0.81	0.19	0.105	0.081	0.120	1.642
2ND QUARTILE :	1.35	0.68	0.250	0.165	0.234	3.035
3RD QUARTILE :	2.75	1.52	0.533	0.253	0.414	5.410

***** : INSUFFICIENT DATA

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF DEPOSITION
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : WELLESLEY/DAILY/SES #04
START TIME : JAN28,81 END TIME : JAN 1,82

	PRECIP. MM	FREE H+ FIELD MG/M**2	FREE H+ LAB MG/M**2	TOTAL H+ MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2
# OF SAMPLES :	62.0	21.00	53.00	26.000	52.00	52.00
MAXIMUM :	19.5	1.41	0.96	1.541	49.84	10.08
MINIMUM :	0.1	0.01	0.00	0.065	0.71	0.19
RANGE :	19.4	1.40	0.96	1.476	49.13	9.89
ARITH. MEAN :	4.0	0.40	0.15	0.528	13.21	2.77
ARITH. STD. DEV :	5.4	0.43	0.24	0.455	13.71	2.50
GEOM. MEAN :	1.7	0.19	0.01	0.360	7.42	1.81
GEOM. STD. DEV. :	1.4	1.35	3.44	0.927	1.18	0.99
1ST QUARTILE :	0.5	0.06	0.00	0.185	3.42	0.96
2ND QUARTILE :	1.7	0.18	0.02	0.308	7.88	1.77
3RD QUARTILE :	4.7	0.62	0.14	0.885	17.40	4.05

***** : INSUFFICIENT DATA
NOTE : PRECIP. VALUES REPRESENT GAUGE DEPTHS

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF DEPOSITION
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : WELLESLEY/DAILY/SES #04
START TIME : JAN28,81 END TIME : JAN 1,82

	CALCIUM	CHLORIDE	MAGNESIM	POTASSIM	SODIUM	AMMONIUM AS N
	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2
# OF SAMPLES :	34.00	52.00	34.000	34.000	34.000	38.000
MAXIMUM :	15.73	3.46	4.186	0.644	2.048	10.324
MINIMUM :	0.23	0.13	0.044	0.012	0.144	0.359
RANGE :	15.50	3.32	4.141	0.632	1.904	9.965
ARITH. MEAN :	3.36	1.09	0.795	0.169	0.648	3.335
ARITH. STD. DEV :	3.43	0.79	0.887	0.148	0.498	2.377
GEOM. MEAN :	2.08	0.82	0.462	0.117	0.485	2.493
GEOM. STD. DEV. :	1.03	0.80	1.118	0.935	0.785	0.835
1ST QUARTILE :	0.93	0.42	0.234	0.079	0.236	1.124
2ND QUARTILE :	1.60	0.83	0.453	0.120	0.472	2.995
3RD QUARTILE :	5.18	1.63	1.013	0.190	0.952	4.410

***** : INSUFFICIENT DATA

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF DEPOSITION
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAVEN LAKE/DAILY/AEROCHEM #05
START TIME : MAY 6,81 END TIME : OCT28,81

	PRECIP. MM	FREE H+ FIELD MG/M**2	FREE H+ LAB MG/M**2	TOTAL H+ MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2
# OF SAMPLES :	61.0	28.00	61.00	32.000	59.00	59.00
MAXIMUM :	37.2	3.47	3.02	4.538	154.38	19.72
MINIMUM :	0.6	0.00	0.00	0.096	1.11	0.08
RANGE :	36.6	3.47	3.02	4.442	153.27	19.64
ARITH. MEAN :	8.1	1.23	0.57	1.238	29.99	3.62
ARITH. STD. DEV :	8.1	1.07	0.72	1.100	35.35	4.04
GEOM. MEAN :	4.9	0.71	0.18	0.843	15.81	2.06
GEOM. STD. DEV. :	1.1	1.49	2.25	0.955	1.22	1.14
1ST QUARTILE :	2.1	0.42	0.08	0.542	6.06	0.84
2ND QUARTILE :	5.0	0.85	0.29	1.024	15.35	2.13
3RD QUARTILE :	12.2	1.70	0.76	1.362	35.44	4.56

***** : INSUFFICIENT DATA
NOTE : PRECIP. VALUES REPRESENT GAUGE DEPTHS

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF DEPOSITION
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : PAVEN LAKE/DAILY/AEROCHEM #05
START TIME : MAY 6,81 END TIME : OCT28,81

	CALCIUM MG/M**2	CHLORIDE MG/M**2	MAGNESIM MG/M**2	POTASSIM MG/M**2	SODIUM MG/M**2	AMMONIUM AS N MG/M**2
# OF SAMPLES :	43.00	59.00	43.000	43.000	43.000	46.000
MAXIMUM :	19.30	6.75	2.444	0.768	4.650	18.972
MINIMUM :	0.24	0.28	0.013	0.025	0.075	0.032
RANGE :	19.06	6.47	2.431	0.743	4.575	18.940
ARITH. MEAN :	2.18	1.45	0.290	0.253	1.079	3.441
ARITH. STD. DEV :	3.62	1.28	0.417	0.244	0.902	3.933
GEOM. MEAN :	1.19	1.08	0.144	0.157	0.792	1.789
GEOM. STD. DEV. :	1.00	0.76	1.224	1.025	0.872	1.323
1ST QUARTILE :	0.56	0.58	0.056	0.057	0.510	0.837
2ND QUARTILE :	1.14	1.10	0.123	0.160	0.884	1.880
3RD QUARTILE :	1.87	1.68	0.342	0.394	1.241	4.388

***** : INSUFFICIENT DATA

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF DEPOSITION
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAVEN LAKE/DAILY/SES #05
START TIME : FEB 2,81 END TIME : JAN 1,82

	PRECIP. MM	FREE H+ FIELD MG/M**2	FREE H+ LAB MG/M**2	TOTAL H+ MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2
# OF SAMPLES :	61.0	32.00	58.00	33.000	57.00	57.00
MAXIMUM :	24.0	1.34	1.06	1.860	75.46	13.76
MINIMUM :	0.2	0.00	0.00	0.055	0.15	0.12
RANGE :	23.8	1.33	1.06	1.805	75.31	13.64
ARITH. MEAN :	4.8	0.47	0.21	0.601	13.81	3.06
ARITH. STD. DEV :	5.6	0.36	0.24	0.464	15.58	2.95
GEOM. MEAN :	2.6	0.21	0.05	0.417	7.35	1.70
GEOM. STD. DEV. :	1.2	2.09	2.64	0.958	1.28	1.25
1ST QUARTILE :	1.1	0.20	0.02	0.192	3.48	0.70
2ND QUARTILE :	2.2	0.38	0.10	0.440	8.30	2.14
3RD QUARTILE :	5.7	0.68	0.31	0.894	18.33	4.69

***** : INSUFFICIENT DATA
NOTE : PRECIP. VALUES REPRESENT GAUGE DEPTHS

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF DEPOSITION
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAVEN LAKE/DAILY/SES #05
START TIME : FEB 2,81 END TIME : JAN 1,82

	CALCIUM MG/M**2	CHLORIDE MG/M**2	MAGNESIM MG/M**2	POTASSIM MG/M**2	SODIUM MG/M**2	AMMONIUM AS N MG/M**2
# OF SAMPLES :	48.00	57.00	48.000	48.000	48.000	49.000
MAXIMUM :	18.26	5.74	2.090	1.050	3.080	18.060
MINIMUM :	0.18	0.04	0.006	0.010	0.026	0.003
RANGE :	18.08	5.69	2.083	1.040	3.054	18.057
ARITH. MEAN :	3.45	1.22	0.365	0.247	0.772	2.294
ARITH. STD. DEV :	3.91	1.34	0.466	0.246	0.800	3.041
GEOM. MEAN :	1.88	0.67	0.167	0.152	0.447	0.978
GEOM. STD. DEV. :	1.18	1.18	1.399	1.074	1.133	1.675
1ST QUARTILE :	0.89	0.28	0.066	0.088	0.209	0.408
2ND QUARTILE :	1.89	0.70	0.189	0.147	0.460	1.398
3RD QUARTILE :	4.95	1.44	0.400	0.351	1.111	2.853

***** : INSUFFICIENT DATA

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF DEPOSITION
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : BALSAM LAKE/DAILY/AEROCHEM #06
START TIME : NOV22.80 END TIME : OCT28.81

	PRECIP. MM	FREE H+ FIELD MG/M**2	FREE H+ LAB MG/M**2	TOTAL H+ MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2
# OF SAMPLES :	84.0	34.00	81.00	40.000	70.00	71.00
MAXIMUM :	31.2	3.57	3.25	4.013	160.60	16.28
MINIMUM :	0.2	0.14	0.00	0.204	0.29	0.17
RANGE :	31.0	3.43	3.25	3.808	160.31	16.11
ARITH. MEAN :	7.0	0.93	0.44	1.081	22.23	3.20
ARITH. STD. DEV :	7.3	0.80	0.58	0.800	28.27	3.10
GEOM. MEAN :	3.8	0.67	0.16	0.835	10.82	2.09
GEOM. STD. DEV. :	1.2	0.83	1.84	0.749	1.33	0.98
1ST QUARTILE :	1.6	0.38	0.06	0.519	3.74	1.05
2ND QUARTILE :	3.9	0.67	0.23	0.810	12.98	2.43
3RD QUARTILE :	10.6	1.29	0.54	1.510	26.67	4.20

***** : INSUFFICIENT DATA
NOTE : PRECIP. VALUES REPRESENT GAUGE DEPTHS

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF DEPOSITION
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : BALSAM LAKE/DAILY/AEROCHEM #06
START TIME : NOV22,80 END TIME : OCT28,81

	CALCIUM	CHLORIDE	MAGNESIM	POTASSIM	SODIUM	AMMONIUM AS N
	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2
# OF SAMPLES :	60.00	70.00	60.000	61.000	61.000	62.000
MAXIMUM :	19.00	10.12	2.900	10.570	8.607	49.830
MINIMUM :	0.09	0.02	0.003	0.006	0.011	0.035
RANGE :	18.91	10.10	2.897	10.564	8.596	49.795
ARITH. MEAN :	1.37	1.23	0.223	0.344	0.644	2.938
ARITH. STD. DEV :	2.70	1.72	0.469	1.350	1.285	6.621
GEOM. MEAN :	0.66	0.58	0.078	0.103	0.230	1.077
GEOM. STD. DEV. :	1.12	1.33	1.372	1.249	1.379	1.514
1ST QUARTILE :	0.31	0.27	0.033	0.051	0.090	0.464
2ND QUARTILE :	0.60	0.62	0.061	0.096	0.172	1.309
3RD QUARTILE :	1.35	1.42	0.211	0.180	0.583	3.019

***** : INSUFFICIENT DATA

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF DEPOSITION
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : BALSAM LAKE/DAILY/SES #06
START TIME : FEB 2,81 END TIME : JAN 1,82

	PRECIP. MM	FREE H+ FIELD MG/M**2	FREE H+ LAB MG/M**2	TOTAL H+ MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2
# OF SAMPLES :	52.0	30.00	50.00	38.000	50.00	50.00
MAXIMUM :	24.3	1.39	1.36	2.058	99.20	19.20
MINIMUM :	0.2	0.00	0.00	0.061	0.53	0.09
RANGE :	24.1	1.39	1.36	1.996	98.67	19.11
ARITH. MEAN :	5.1	0.47	0.25	0.580	15.26	3.19
ARITH. STD. DEV :	5.1	0.35	0.28	0.486	18.37	3.34
GEOM. MEAN :	3.0	0.26	0.08	0.395	8.02	1.80
GEOM. STD. DEV. :	1.2	1.82	2.28	0.958	1.23	1.25
1ST QUARTILE :	1.3	0.23	0.03	0.187	3.52	0.98
2ND QUARTILE :	3.1	0.36	0.15	0.438	7.83	2.15
3RD QUARTILE :	7.1	0.71	0.35	0.798	18.87	4.40

***** : INSUFFICIENT DATA
NOTE : PRECIP. VALUES REPRESENT GAUGE DEPTHS

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF DEPOSITION
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : BALSAM LAKE/DAILY/SES #06
START TIME : FEB 2,81 END TIME : JAN 1,82

	CALCIUM	CHLORIDE	MAGNESIM	POTASSIM	SODIUM	AMMONIUM AS N
	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2
# OF SAMPLES :	47.00	50.00	47.000	47.000	47.000	44.000
MAXIMUM :	19.95	27.04	2.720	1.440	22.400	10.830
MINIMUM :	0.12	0.01	0.005	0.006	0.024	0.019
RANGE :	19.83	27.03	2.715	1.434	22.376	10.811
ARITH. MEAN :	3.33	1.33	0.387	0.196	0.955	2.196
ARITH. STD. DEV :	4.58	3.81	0.598	0.291	3.243	2.564
GEOM. MEAN :	1.35	0.44	0.130	0.087	0.309	1.009
GEOM. STD. DEV. :	1.46	1.51	1.617	1.334	1.252	1.479
1ST QUARTILE :	0.35	0.20	0.032	0.035	0.112	0.383
2ND QUARTILE :	1.48	0.52	0.124	0.083	0.282	1.206
3RD QUARTILE :	4.79	1.06	0.358	0.197	0.606	2.891

***** : INSUFFICIENT DATA

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF DEPOSITION
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : BALSAM LAKE/DAILY/SES #06
START TIME : FEB 2,81 END TIME : JAN 1,82

	PRECIP. MM	FREE H+ FIELD MG/M**2	FREE H+ LAB MG/M**2	TOTAL H+ MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2
# OF SAMPLES :	52.0	30.00	50.00	38.000	50.00	50.00
MAXIMUM :	24.3	1.39	1.36	2.058	99.20	19.20
MINIMUM :	0.2	0.00	0.00	0.061	0.53	0.09
RANGE :	24.1	1.39	1.36	1.996	98.67	19.11
ARITH. MEAN :	5.1	0.47	0.25	0.580	15.26	3.19
ARITH. STD. DEV :	5.1	0.35	0.28	0.486	18.37	3.34
GEOM. MEAN :	3.0	0.26	0.08	0.395	8.02	1.80
GEOM. STD. DEV. :	1.2	1.82	2.28	0.958	1.23	1.25
1ST QUARTILE :	1.3	0.23	0.03	0.187	3.52	0.98
2ND QUARTILE :	3.1	0.36	0.15	0.438	7.83	2.15
3RD QUARTILE :	7.1	0.71	0.35	0.798	18.87	4.40

***** : INSUFFICIENT DATA
NOTE : PRECIP. VALUES REPRESENT GAUGE DEPTHS

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF DEPOSITION
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : BALSAM LAKE/DAILY/SES #06
START TIME : FEB 2,81 END TIME : JAN 1,82

	CALCIUM	CHLORIDE	MAGNESIM	POTASSIM	SODIUM	AMMONIUM AS N
	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2
# OF SAMPLES :	47.00	50.00	47.000	47.000	47.000	44.000
MAXIMUM :	19.95	27.04	2.720	1.440	22.400	10.830
MINIMUM :	0.12	0.01	0.005	0.006	0.024	0.019
RANGE :	19.83	27.03	2.715	1.434	22.376	10.811
ARITH. MEAN :	3.33	1.33	0.387	0.196	0.955	2.196
ARITH. STD. DEV :	4.58	3.81	0.598	0.291	3.243	2.564
GEOM. MEAN :	1.35	0.44	0.130	0.087	0.309	1.009
GEOM. STD. DEV. :	1.46	1.51	1.617	1.334	1.252	1.479
1ST QUARTILE :	0.35	0.20	0.032	0.035	0.112	0.383
2ND QUARTILE :	1.48	0.52	0.124	0.083	0.282	1.206
3RD QUARTILE :	4.79	1.06	0.358	0.197	0.606	2.891

***** : INSUFFICIENT DATA

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF DEPOSITION
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : NITHGROVE/DAILY/AEROCHEM #07
START TIME : MAY 6,81 END TIME : OCT24,81

	PRECIP. MM	FREE H+ FIELD MG/M**2	FREE H+ LAB MG/M**2	TOTAL H+ MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2
# OF SAMPLES :	55.0	26.00	53.00	36.000	53.00	53.00
MAXIMUM :	35.0	6.52	4.72	5.971	197.75	21.70
MINIMUM :	0.8	0.25	0.00	0.184	1.05	0.02
RANGE :	34.2	6.27	4.72	5.787	196.70	21.68
ARITH. MEAN :	9.9	1.48	0.62	1.236	34.34	4.02
ARITH. STD. DEV :	8.6	1.51	0.88	1.205	39.76	3.83
GEOM. MEAN :	7.0	0.98	0.23	0.861	20.17	2.52
GEOM. STD. DEV. :	0.9	0.92	1.95	0.855	1.11	1.17
1ST QUARTILE :	3.8	0.50	0.12	0.531	11.47	1.42
2ND QUARTILE :	6.4	1.09	0.37	0.782	19.05	2.92
3RD QUARTILE :	13.6	1.61	0.67	1.316	36.08	4.82

***** : INSUFFICIENT DATA
NOTE : PRECIP. VALUES REPRESENT GAUGE DEPTHS

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF DEPOSITION
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : NITHGROVE/DAILY/AEROCHEM #07
START TIME : MAY 6,81 END TIME : OCT24,81

	CALCIUM MG/M**2	CHLORIDE MG/M**2	MAGNESIM MG/M**2	POTASSIM MG/M**2	SODIUM MG/M**2	AMMONIUM AS N MG/M**2
# OF SAMPLES :	44.00	53.00	44.000	44.000	44.000	47.000
MAXIMUM :	12.10	5.92	2.200	6.670	3.948	18.600
MINIMUM :	0.29	0.12	0.018	0.027	0.062	0.061
RANGE :	11.81	5.80	2.182	6.643	3.886	18.539
ARITH. MEAN :	2.35	1.53	0.390	0.834	0.677	4.069
ARITH. STD. DEV :	2.48	1.42	0.458	1.270	0.839	4.327
GEOM. MEAN :	1.60	1.06	0.237	0.496	0.416	2.242
GEOM. STD. DEV. :	0.88	0.88	1.049	0.963	0.950	1.258
1ST QUARTILE :	0.97	0.55	0.153	0.305	0.202	1.137
2ND QUARTILE :	1.74	0.99	0.238	0.464	0.395	2.245
3RD QUARTILE :	2.63	1.96	0.553	0.783	0.695	5.805

***** : INSUFFICIENT DATA

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF DEPOSITION
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : NITHGROVE/DAILY/SES #07
START TIME : JAN27,81 END TIME : JAN 1,82

	PRECIP. MM	FREE H+ FIELD MG/M**2	FREE H+ LAB MG/M**2	TOTAL H+ MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2
# OF SAMPLES :	75.0	33.00	70.00	43.000	69.00	69.00
MAXIMUM :	40.6	2.81	2.56	4.194	101.41	16.63
MINIMUM :	0.2	0.00	0.00	0.050	0.28	0.01
RANGE :	40.4	2.81	2.56	4.144	101.13	16.62
ARITH. MEAN :	4.9	0.53	0.24	0.630	12.74	2.73
ARITH. STD. DEV :	6.8	0.54	0.35	0.680	16.83	2.99
GEOM. MEAN :	2.4	0.30	0.09	0.434	6.64	1.45
GEOM. STD. DEV. :	1.2	1.47	1.97	0.874	1.22	1.37
1ST QUARTILE :	1.0	0.19	0.04	0.214	3.33	0.79
2ND QUARTILE :	2.1	0.40	0.13	0.438	6.57	1.83
3RD QUARTILE :	5.8	0.63	0.35	0.764	16.78	3.49

***** : INSUFFICIENT DATA
NOTE : PRECIP. VALUES REPRESENT GAUGE DEPTHS

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF DEPOSITION
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : NITHGROVE/DAILY/SES #07
START TIME : JAN27,81 END TIME : JAN 1,82

	CALCIUM MG/M**2	CHLORIDE MG/M**2	MAGNESIM MG/M**2	POTASSIM MG/M**2	SODIUM MG/M**2	AMMONIUM AS N MG/M**2
# OF SAMPLES :	59.00	69.00	58.000	59.000	59.000	54.000
MAXIMUM :	18.63	13.12	3.886	6.560	8.480	16.080
MINIMUM :	0.09	0.01	0.006	0.015	0.035	0.001
RANGE :	18.54	13.11	3.879	6.545	8.445	16.079
ARITH. MEAN :	1.95	0.94	0.270	0.377	0.629	2.121
ARITH. STD. DEV :	2.98	1.66	0.556	0.860	1.198	2.870
GEOM. MEAN :	0.94	0.46	0.107	0.194	0.307	0.919
GEOM. STD. DEV. :	1.20	1.27	1.318	1.042	1.114	1.608
1ST QUARTILE :	0.38	0.21	0.041	0.071	0.119	0.419
2ND QUARTILE :	0.92	0.53	0.104	0.204	0.282	1.128
3RD QUARTILE :	1.73	1.15	0.217	0.384	0.630	2.485

***** : INSUFFICIENT DATA

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF DEPOSITION
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/AEROCHEM #08
START TIME : JUL15,80 END TIME : DEC23,81

	PRECIP. MM	FREE H+ FIELD MG/M**2	FREE H+ LAB MG/M**2	TOTAL H+ MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2
# OF SAMPLES :	193.0	77.00	187.00	******	175.00	175.00
MAXIMUM :	97.0	6.45	3.98	5.207	185.76	20.00
MINIMUM :	0.4	0.12	0.00	0.129	0.36	0.01
RANGE :	96.6	6.33	3.98	5.078	185.40	19.99
ARITH. MEAN :	8.0	1.21	0.48	1.104	24.64	3.65
ARITH. STD. DEV :	10.3	1.12	0.63	0.992	32.51	3.56
GEOM. MEAN :	4.7	0.86	0.23	0.785	12.17	2.24
GEOM. STD. DEV. :	1.0	0.84	1.39	0.836	1.26	1.12
1ST QUARTILE :	2.3	0.50	0.10	0.416	4.92	1.19
2ND QUARTILE :	4.8	0.80	0.27	0.786	12.72	2.46
3RD QUARTILE :	10.0	1.58	0.58	1.510	31.00	4.73

***** : INSUFFICIENT DATA
NOTE : PRECIP. VALUES REPRESENT GAUGE DEPTHS

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF DEPOSITION
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/AEROCHEM #08
START TIME : JUL15,80 END TIME : DEC23,81

	CALCIUM	CHLORIDE	MAGNESIM	POTASSIM	SODIUM	AMMONIUM AS N
	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2
# OF SAMPLES :	140.00	174.00	******	******	******	******
MAXIMUM :	31.50	12.03	5.500	5.900	12.939	46.000
MINIMUM :	0.01	0.01	0.003	0.006	0.012	0.003
RANGE :	31.49	12.02	5.497	5.894	12.927	45.997
ARITH. MEAN :	1.72	1.00	0.296	0.244	0.417	3.337
ARITH. STD. DEV :	3.27	1.36	0.637	0.535	1.157	5.385
GEOM. MEAN :	0.74	0.51	0.108	0.126	0.196	1.325
GEOM. STD. DEV. :	1.34	1.27	1.432	1.093	1.108	1.626
1ST QUARTILE :	0.28	0.21	0.038	0.060	0.103	0.553
2ND QUARTILE :	0.76	0.60	0.100	0.125	0.203	1.680
3RD QUARTILE :	1.94	1.15	0.318	0.270	0.398	4.383

***** : INSUFFICIENT DATA

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF DEPOSITION
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/SES #08
START TIME : JAN16,81 END TIME : JAN 1,82

	PRECIP. MM	FREE H+ FIELD MG/M**2	FREE H+ LAB MG/M**2	TOTAL H+ MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2
# OF SAMPLES :	82.0	37.00	75.00	46.000	72.00	72.00
MAXIMUM :	48.2	1.96	1.63	2.786	67.67	12.86
MINIMUM :	0.1	0.00	0.00	0.053	0.04	0.01
RANGE :	48.1	1.96	1.63	2.733	67.63	12.86
ARITH. MEAN :	4.5	0.52	0.25	0.582	11.43	2.66
ARITH. STD. DEV :	6.7	0.40	0.29	0.509	13.88	2.90
GEOM. MEAN :	2.1	0.37	0.11	0.422	5.35	1.31
GEOM. STD. DEV. :	1.3	1.06	1.75	0.845	1.44	1.45
1ST QUARTILE :	0.8	0.21	0.05	0.249	2.31	0.59
2ND QUARTILE :	2.2	0.44	0.15	0.439	6.65	1.70
3RD QUARTILE :	5.3	0.65	0.35	0.716	13.53	3.81

***** : INSUFFICIENT DATA
NOTE : PRECIP. VALUES REPRESENT GAUGE DEPTHS

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF DEPOSITION
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/SES #08
START TIME : JAN16.81 END TIME : JAN 1.82

	CALCIUM	CHLORIDE	MAGNESIM	POTASSIM	SODIUM	AMMONIUM AS N
	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2
# OF SAMPLES :	65.00	72.00	64.000	65.000	65.000	62.000
MAXIMUM :	18.09	5.78	3.819	0.938	2.680	12.596
MINIMUM :	0.01	0.02	0.002	0.003	0.015	0.000
RANGE :	18.08	5.76	3.817	0.935	2.665	12.596
ARITH. MEAN :	1.39	0.81	0.225	0.123	0.378	1.710
ARITH. STD. DEV :	2.75	1.07	0.547	0.167	0.526	2.257
GEOM. MEAN :	0.40	0.41	0.051	0.058	0.183	0.539
GEOM. STD. DEV. :	1.64	1.21	1.699	1.330	1.194	2.125
1ST QUARTILE :	0.12	0.18	0.014	0.022	0.074	0.210
2ND QUARTILE :	0.35	0.40	0.044	0.059	0.156	0.936
3RD QUARTILE :	1.16	0.98	0.159	0.126	0.407	2.486

***** : INSUFFICIENT DATA

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF DEPOSITION
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : WHITMAN CREEK/DAILY/AEROCHEM #09
START TIME : OCT25,80 END TIME : OCT28,81

	PRECIP. MM	FREE H+ FIELD MG/M**2	FREE H+ LAB MG/M**2	TOTAL H+ MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2
# OF SAMPLES :	64.0	32.00	58.00	39.000	53.00	53.00
MAXIMUM :	51.0	18.52	3.92	5.324	264.00	21.56
MINIMUM :	0.4	0.08	0.00	0.099	1.25	0.25
RANGE :	50.6	18.44	3.92	5.225	262.75	21.31
ARITH. MEAN :	11.7	3.07	0.80	1.611	45.64	5.72
ARITH. STD. DEV :	12.5	4.76	1.00	1.526	56.36	5.58
GEOM. MEAN :	6.7	1.29	0.34	1.032	24.94	3.54
GEOM. STD. DEV. :	1.1	1.32	1.58	1.006	1.14	1.06
1ST QUARTILE :	3.5	0.52	0.10	0.513	10.83	1.88
2ND QUARTILE :	6.8	1.13	0.40	0.981	22.98	3.14
3RD QUARTILE :	14.5	3.73	0.89	2.112	49.86	7.50

***** : INSUFFICIENT DATA
NOTE : PRECIP. VALUES REPRESENT GAUGE DEPTHS

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF DEPOSITION
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : WHITMAN CREEK/DAILY/AEROCHEM #09
START TIME : OCT25,80 END TIME : OCT28,81

	CALCIUM MG/M**2	CHLORIDE MG/M**2	MAGNESIM MG/M**2	POTASSIM MG/M**2	SODIUM MG/M**2	AMMONIUM AS N MG/M**2
# OF SAMPLES :	48.00	53.00	48.000	48.000	48.000	51.000
MAXIMUM :	30.36	13.20	8.200	7.680	15.582	22.000
MINIMUM :	0.24	0.01	0.027	0.024	0.060	0.029
RANGE :	30.12	13.19	8.172	7.656	15.522	21.971
ARITH. MEAN :	3.46	2.04	0.575	0.643	1.019	4.527
ARITH. STD. DEV :	5.51	2.73	1.258	1.370	2.406	5.029
GEOM. MEAN :	1.70	1.06	0.239	0.260	0.399	2.209
GEOM. STD. DEV. :	1.14	1.24	1.249	1.231	1.216	1.440
1ST QUARTILE :	0.70	0.47	0.084	0.118	0.193	1.081
2ND QUARTILE :	1.63	1.14	0.278	0.226	0.348	2.142
3RD QUARTILE :	3.93	2.10	0.491	0.476	0.910	6.295

***** : INSUFFICIENT DATA

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF DEPOSITION
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : WHITMAN CREEK/DAILY/SES #09
START TIME : NOV25.80 END TIME : JAN 1.82

	PRECIP. MM	FREE H+ FIELD MG/M**2	FREE H+ LAB MG/M**2	TOTAL H+ MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2
# OF SAMPLES :	63.0	31.00	61.00	37.000	60.00	60.00
MAXIMUM :	32.5	4.45	1.29	2.220	105.00	13.10
MINIMUM :	0.1	0.03	0.00	0.032	0.36	0.12
RANGE :	32.3	4.42	1.29	2.188	104.64	12.99
ARITH. MEAN :	4.8	0.81	0.23	0.578	14.22	3.32
ARITH. STD. DEV :	6.1	1.06	0.29	0.474	17.49	3.29
GEOM. MEAN :	2.4	0.38	0.06	0.415	7.18	1.89
GEOM. STD. DEV. :	1.2	1.29	2.45	0.885	1.28	1.22
1ST QUARTILE :	1.0	0.13	0.02	0.230	2.70	1.10
2ND QUARTILE :	2.3	0.28	0.13	0.418	7.52	2.31
3RD QUARTILE :	6.3	1.08	0.30	0.774	20.22	4.35

***** : INSUFFICIENT DATA
NOTE : PRECIP. VALUES REPRESENT GAUGE DEPTHS

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF DEPOSITION
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : WHITMAN CREEK/DAILY/SES #09
START TIME : NOV25,80 END TIME : JAN 1,82

	CALCIUM MG/M**2	CHLORIDE MG/M**2	MAGNESIM MG/M**2	POTASSIM MG/M**2	SODIUM MG/M**2	AMMONIUM AS N MG/M**2
# OF SAMPLES :	52.00	60.00	52.000	51.000	50.000	59.000
MAXIMUM :	27.72	28.75	3.738	3.761	17.500	16.296
MINIMUM :	0.08	0.03	0.007	0.009	0.028	0.020
RANGE :	27.64	28.72	3.731	3.752	17.472	16.276
ARITH. MEAN :	3.38	2.21	0.507	0.449	1.506	1.966
ARITH. STD. DEV :	4.93	4.15	0.758	0.734	2.796	2.708
GEOM. MEAN :	1.58	0.98	0.214	0.177	0.651	0.967
GEOM. STD. DEV. :	1.26	1.32	1.384	1.426	1.284	1.303
1ST QUARTILE :	0.65	0.46	0.099	0.071	0.241	0.321
2ND QUARTILE :	1.36	1.04	0.190	0.166	0.647	1.119
3RD QUARTILE :	4.30	2.07	0.485	0.453	1.454	2.515

***** : INSUFFICIENT DATA

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF DEPOSITION
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAILTON/DAILY/AEROCHEM #10
START TIME : JUL15.80 END TIME : OCT28.81

	PRECIP. MM	FREE H+ FIELD MG/M**2	FREE H+ LAB MG/M**2	TOTAL H+ MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2
# OF SAMPLES :	153.0	57.00	135.00	80.000	124.00	124.00
MAXIMUM :	66.2	19.18	3.32	4.938	171.45	31.19
MINIMUM :	0.1	0.11	0.00	0.222	0.30	0.08
RANGE :	66.1	19.07	3.32	4.716	171.15	31.10
ARITH. MEAN :	9.3	1.93	0.63	1.451	33.92	5.48
ARITH. STD. DEV :	11.8	2.92	0.66	0.968	33.71	5.40
GEOM. MEAN :	4.5	1.06	0.26	1.175	19.11	3.46
GEOM. STD. DEV. :	1.3	1.08	1.94	0.671	1.24	1.08
1ST QUARTILE :	1.8	0.57	0.13	0.710	9.61	1.97
2ND QUARTILE :	4.6	0.99	0.41	1.239	21.30	3.96
3RD QUARTILE :	12.4	2.04	0.88	1.907	48.78	6.93

***** : INSUFFICIENT DATA
NOTE : PRECIP. VALUES REPRESENT GAUGE DEPTHS

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF DEPOSITION
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAILTON/DAILY/AEROCHEM #10
START TIME : JUL15,80 END TIME : OCT28,81

	CALCIUM	CHLORIDE	MAGNESIM	POTASSIM	SODIUM	AMMONIUM AS N
	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2
# OF SAMPLES :	105.00	124.00	******	******	******	******
MAXIMUM :	30.62	30.86	4.400	7.308	19.738	44.000
MINIMUM :	0.20	0.13	0.013	0.050	0.031	0.010
RANGE :	30.42	30.73	4.387	7.258	19.707	43.990
ARITH. MEAN :	3.30	2.29	0.446	0.548	1.403	4.352
ARITH. STD. DEV :	4.67	3.37	0.684	0.793	2.280	5.474
GEOM. MEAN :	2.02	1.52	0.232	0.356	0.863	2.350
GEOM. STD. DEV. :	0.94	0.85	1.109	0.876	0.946	1.282
1ST QUARTILE :	1.11	0.82	0.117	0.187	0.469	1.117
2ND QUARTILE :	1.91	1.64	0.206	0.360	0.906	2.813
3RD QUARTILE :	3.40	2.52	0.439	0.650	1.512	5.705

***** : INSUFFICIENT DATA

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF DEPOSITION
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAILTON/DAILY/SES #10
START TIME : JAN23,81 END TIME : JAN 1,82

	PRECIP. MM	FREE H+ FIELD MG/M**2	FREE H+ LAB MG/M**2	TOTAL H+ MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2
# OF SAMPLES :	51.0	26.00	50.00	33.000	50.00	50.00
MAXIMUM :	36.4	4.81	1.78	2.711	109.62	17.22
MINIMUM :	0.2	0.00	0.00	0.036	0.32	0.13
RANGE :	36.2	4.81	1.78	2.675	109.29	17.09
ARITH. MEAN :	6.9	1.37	0.29	0.739	17.61	4.00
ARITH. STD. DEV :	8.4	1.27	0.40	0.658	21.43	3.82
GEOM. MEAN :	3.0	0.70	0.07	0.484	8.54	2.15
GEOM. STD. DEV. :	1.4	1.61	2.49	1.045	1.34	1.34
1ST QUARTILE :	0.9	0.38	0.03	0.270	3.10	0.75
2ND QUARTILE :	2.8	0.90	0.15	0.537	10.54	2.95
3RD QUARTILE :	10.6	1.96	0.34	0.891	20.66	5.64

***** : INSUFFICIENT DATA
NOTE : PRECIP. VALUES REPRESENT GAUGE DEPTHS

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF DEPOSITION
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAILTON/DAILY/SES #10
START TIME : JAN23,81 END TIME : JAN 1,82

	CALCIUM MG/M**2	CHLORIDE MG/M**2	MAGNESIM MG/M**2	POTASSIM MG/M**2	SODIUM MG/M**2	AMMONIUM AS N MG/M**2
# OF SAMPLES :	40.00	50.00	40.000	40.000	40.000	46.000
MAXIMUM :	21.29	23.07	3.936	1.960	14.420	11.826
MINIMUM :	0.09	0.01	0.004	0.007	0.011	0.054
RANGE :	21.20	23.06	3.932	1.953	14.409	11.772
ARITH. MEAN :	4.88	2.14	0.692	0.394	1.595	2.416
ARITH. STD. DEV :	5.18	3.63	0.855	0.470	2.462	2.629
GEOM. MEAN :	2.62	0.94	0.272	0.202	0.730	1.364
GEOM. STD. DEV. :	1.32	1.39	1.677	1.323	1.432	1.212
1ST QUARTILE :	1.16	0.37	0.115	0.118	0.263	0.713
2ND QUARTILE :	3.67	1.11	0.437	0.221	0.883	1.801
3RD QUARTILE :	6.14	2.26	0.981	0.435	1.974	2.711

***** : INSUFFICIENT DATA

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF DEPOSITION
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : CHARLESTON LAKE/DAILY/AEROCHEM #11
START TIME : MAY 6,81 END TIME : OCT28,81

		PRECIP. MM	FREE H+ FIELD MG/M**2	FREE H+ LAB MG/M**2	TOTAL H+ MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2
# OF SAMPLES	:	88.0	32.00	73.00	45.000	68.00	68.00
MAXIMUM	:	47.4	6.04	2.96	4.204	147.90	19.16
MINIMUM	:	0.2	0.02	0.00	0.220	0.36	0.01
RANGE	:	47.2	6.01	2.96	3.984	147.54	19.15
ARITH. MEAN	:	7.7	1.19	0.56	1.228	29.56	3.87
ARITH. STD. DEV	:	9.1	1.26	0.59	0.887	28.40	3.57
GEOM. MEAN	:	3.7	0.70	0.29	0.955	18.44	2.46
GEOM. STD. DEV.	:	1.4	1.18	1.37	0.746	1.10	1.14
1ST QUARTILE	:	1.3	0.43	0.12	0.556	9.16	1.40
2ND QUARTILE	:	4.9	0.91	0.33	1.092	22.36	2.52
3RD QUARTILE	:	9.7	1.22	0.83	1.629	40.56	5.15

***** : INSUFFICIENT DATA
NOTE : PRECIP. VALUES REPRESENT GAUGE DEPTHS

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF DEPOSITION
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : CHARLESTON LAKE/DAILY/AEROCHEM #11
START TIME : MAY 6,81 END TIME : OCT28,81

	CALCIUM MG/M**2	CHLORIDE MG/M**2	MAGNESIM MG/M**2	POTASSIM MG/M**2	SODIUM MG/M**2	AMMONIUM AS N MG/M**2
# OF SAMPLES :	56.00	68.00	56.000	56.000	56.000	62.000
MAXIMUM :	8.00	5.92	1.500	2.724	4.264	19.836
MINIMUM :	0.10	0.01	0.012	0.009	0.026	0.002
RANGE :	7.90	5.90	1.487	2.714	4.238	19.834
ARITH. MEAN :	1.63	1.25	0.243	0.283	1.129	3.249
ARITH. STD. DEV :	1.62	1.21	0.281	0.403	1.259	3.657
GEOM. MEAN :	1.02	0.77	0.137	0.154	0.492	1.483
GEOM. STD. DEV. :	1.04	1.15	1.142	1.129	1.455	1.757
1ST QUARTILE :	0.51	0.38	0.067	0.060	0.158	1.040
2ND QUARTILE :	0.96	0.94	0.120	0.157	0.489	2.146
3RD QUARTILE :	2.30	1.59	0.375	0.425	1.805	4.052

***** : INSUFFICIENT DATA

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF DEPOSITION
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : CHARLESTON LAKE/DAILY/SES #11
START TIME : JAN26,81 END TIME : JAN 1,82

	PRECIP. MM	FREE H+ FIELD MG/M**2	FREE H+ LAB MG/M**2	TOTAL H+ MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2
# OF SAMPLES :	80.0	34.00	68.00	45.000	64.00	64.00
MAXIMUM :	20.8	4.36	1.02	1.468	62.13	10.10
MINIMUM :	0.0	0.02	0.00	0.036	0.24	0.03
RANGE :	20.8	4.34	1.02	1.432	61.89	10.07
ARITH. MEAN :	4.0	1.13	0.21	0.518	11.30	2.66
ARITH. STD. DEV :	5.3	1.32	0.25	0.435	12.15	2.40
GEOM. MEAN :	1.5	0.54	0.04	0.333	6.03	1.44
GEOM. STD. DEV. :	1.6	1.42	2.83	1.040	1.26	1.38
1ST QUARTILE :	0.5	0.22	0.01	0.141	2.62	0.60
2ND QUARTILE :	1.7	0.58	0.13	0.333	7.14	2.22
3RD QUARTILE :	5.6	1.18	0.36	0.844	18.46	4.13

***** : INSUFFICIENT DATA
NOTE : PRECIP. VALUES REPRESENT GAUGE DEPTHS

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF DEPOSITION
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : CHARLESTON LAKE/DAILY/SES #11
START TIME : JAN26,81 END TIME : JAN 1,82

	CALCIUM MG/M**2	CHLORIDE MG/M**2	MAGNESIM MG/M**2	POTASSIM MG/M**2	SODIUM MG/M**2	AMMONIUM AS N MG/M**2
# OF SAMPLES :	53.00	64.00	53.000	53.000	53.000	60.000
MAXIMUM :	7.96	11.62	1.806	0.981	7.000	7.630
MINIMUM :	0.06	0.01	0.003	0.006	0.002	0.010
RANGE :	7.90	11.61	1.803	0.975	6.998	7.620
ARITH. MEAN :	1.78	1.16	0.365	0.168	0.750	1.533
ARITH. STD. DEV :	2.05	2.20	0.455	0.211	1.317	1.526
GEOM. MEAN :	0.95	0.40	0.147	0.092	0.287	0.763
GEOM. STD. DEV. :	1.18	1.54	1.534	1.130	1.473	1.530
1ST QUARTILE :	0.41	0.14	0.043	0.040	0.104	0.391
2ND QUARTILE :	0.90	0.41	0.151	0.093	0.235	1.099
3RD QUARTILE :	2.36	1.09	0.479	0.197	0.697	2.504

***** : INSUFFICIENT DATA

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF DEPOSITION
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : GRAHAM LAKE/DAILY/AEROCHEM #12
START TIME : OCT26,80 END TIME : OCT28,81

	PRECIP. MM	FREE H+ FIELD MG/M**2	FREE H+ LAB MG/M**2	TOTAL H+ MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2
# OF SAMPLES :	105.0	45.00	94.00	60.000	92.00	92.00
MAXIMUM :	58.0	6.10	2.81	4.000	150.15	23.70
MINIMUM :	0.2	0.01	0.00	0.078	1.11	0.02
RANGE :	57.8	6.09	2.81	3.922	149.04	23.68
ARITH. MEAN :	8.9	0.95	0.50	1.102	25.55	4.55
ARITH. STD. DEV :	9.7	1.22	0.58	0.898	26.09	4.89
GEOM. MEAN :	5.1	0.49	0.20	0.822	16.05	2.57
GEOM. STD. DEV. :	1.2	1.28	1.88	0.793	1.02	1.24
1ST QUARTILE :	2.5	0.27	0.12	0.507	8.04	1.39
2ND QUARTILE :	5.9	0.48	0.26	0.782	16.79	2.90
3RD QUARTILE :	11.0	1.10	0.64	1.445	34.77	5.22

***** : INSUFFICIENT DATA
NOTE : PRECIP. VALUES REPRESENT GAUGE DEPTHS

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF DEPOSITION
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : GRAHAM LAKE/DAILY/AEROCHEM #12
START TIME : OCT26,80 END TIME : OCT28,81

	CALCIUM MG/M**2	CHLORIDE MG/M**2	MAGNESIM MG/M**2	POTASSIM MG/M**2	SODIUM MG/M**2	AMMONIUM AS N MG/M**2
# OF SAMPLES :	75.00	91.00	75.000	73.000	75.000	84.000
MAXIMUM :	47.52	9.87	14.827	1.974	7.102	16.830
MINIMUM :	0.04	0.17	0.008	0.017	0.045	0.061
RANGE :	47.48	9.70	14.818	1.957	7.057	16.769
ARITH. MEAN :	3.02	1.76	0.655	0.401	0.969	3.538
ARITH. STD. DEV :	5.76	1.81	1.745	0.370	1.303	3.447
GEOM. MEAN :	1.59	1.21	0.264	0.282	0.556	2.097
GEOM. STD. DEV. :	1.11	0.86	1.294	0.876	1.045	1.166
1ST QUARTILE :	0.74	0.62	0.110	0.153	0.275	1.133
2ND QUARTILE :	1.58	1.19	0.301	0.304	0.591	2.398
3RD QUARTILE :	3.36	2.07	0.628	0.480	0.975	4.956

***** : INSUFFICIENT DATA

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF DEPOSITION
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : GRAHAM LAKE/DAILY/SES #12
START TIME : FEB21,81 END TIME : JAN 1,82

	PRECIP. MM	FREE H+ FIELD MG/M**2	FREE H+ LAB MG/M**2	TOTAL H+ MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2
# OF SAMPLES :	55.0	27.00	53.00	36.000	49.00	49.00
MAXIMUM :	24.6	4.25	2.55	1.125	144.00	61.92
MINIMUM :	0.1	0.00	0.00	0.070	0.61	0.05
RANGE :	24.5	4.25	2.55	1.055	143.38	61.87
ARITH. MEAN :	5.4	0.65	0.22	0.467	18.98	4.47
ARITH. STD. DEV :	5.1	0.87	0.39	0.311	24.03	8.74
GEOM. MEAN :	3.0	0.27	0.04	0.360	9.57	2.05
GEOM. STD. DEV. :	1.3	1.75	2.76	0.784	1.31	1.41
1ST QUARTILE :	1.1	0.12	0.01	0.183	4.27	1.27
2ND QUARTILE :	4.0	0.37	0.09	0.440	10.51	2.89
3RD QUARTILE :	8.4	0.84	0.24	0.679	24.24	4.86

***** : INSUFFICIENT DATA
NOTE : PRECIP. VALUES REPRESENT GAUGE DEPTHS

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF DEPOSITION
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : GRAHAM LAKE/DAILY/SES #12
START TIME : FEB21,81 END TIME : JAN 1,82

	CALCIUM MG/M**2	CHLORIDE MG/M**2	MAGNESIM MG/M**2	POTASSIM MG/M**2	SODIUM MG/M**2	AMMONIUM AS N MG/M**2
# OF SAMPLES :	43.00	49.00	43.000	43.000	43.000	49.000
MAXIMUM :	47.52	18.72	10.080	8.000	14.400	53.500
MINIMUM :	0.09	0.05	0.013	0.020	0.108	0.004
RANGE :	47.43	18.67	10.067	7.980	14.292	53.496
ARITH. MEAN :	5.11	1.63	1.073	0.489	1.214	3.319
ARITH. STD. DEV :	7.96	2.73	1.728	1.214	2.205	7.557
GEOM. MEAN :	2.11	0.85	0.366	0.213	0.685	1.196
GEOM. STD. DEV. :	1.45	1.18	1.638	1.151	0.974	1.737
1ST QUARTILE :	0.62	0.37	0.086	0.097	0.311	0.553
2ND QUARTILE :	2.15	0.94	0.410	0.221	0.675	2.216
3RD QUARTILE :	6.68	1.95	1.521	0.342	1.210	3.403

***** : INSUFFICIENT DATA

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF DEPOSITION
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : FORBES TWSP/DAILY/AEROCHEM #13
START TIME : SEP24,81 END TIME : OCT 1,81

	PRECIP. MM	FREE H+ FIELD MG/M**2	FREE H+ LAB MG/M**2	TOTAL H+ MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2
# OF SAMPLES :	5.0	0.0	5.00	2.000	5.00	5.00
MAXIMUM :	15.6	******	0.53	0.886	26.72	2.81
MINIMUM :	1.0	******	0.00	0.789	0.10	0.00
RANGE :	14.6	******	0.53	0.097	26.62	2.80
ARITH. MEAN :	7.4	******	0.31	0.838	15.22	1.69
ARITH. STD. DEV :	7.3	******	0.22	0.069	10.34	1.16
GEOM. MEAN :	4.3	******	0.11	0.836	6.35	0.60
GEOM. STD. DEV. :	1.2	******	2.64	0.082	2.35	2.70
1ST QUARTILE :	1.5	******	0.08	******	5.15	0.68
2ND QUARTILE :	2.6	******	0.26	******	14.10	1.43
3RD QUARTILE :	9.1	******	0.43	******	19.53	2.14

***** : INSUFFICIENT DATA
NOTE : PRECIP. VALUES REPRESENT GAUGE DEPTHS

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF DEPOSITION
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : FORBES TWSP/DAILY/AEROCHEM #13
START TIME : SEP24,81 END TIME : OCT 1,81

	CALCIUM MG/M**2	CHLORIDE MG/M**2	MAGNESIM MG/M**2	POTASSIM MG/M**2	SODIUM MG/M**2	AMMONIUM AS N MG/M**2
# OF SAMPLES :	4.00	5.00	4.000	4.000	4.000	3.000
MAXIMUM :	1.50	3.30	0.300	0.780	3.450	2.558
MINIMUM :	0.78	0.00	0.039	0.060	0.080	0.990
RANGE :	0.72	3.30	0.261	0.720	3.370	1.568
ARITH. MEAN :	1.24	0.81	0.162	0.261	1.445	1.972
ARITH. STD. DEV :	0.32	1.40	0.107	0.347	1.604	0.856
GEOM. MEAN :	1.21	0.17	0.129	0.146	0.595	1.817
GEOM. STD. DEV. :	0.30	2.38	0.859	1.163	1.786	0.527
1ST QUARTILE :	1.03	0.04	0.094	0.067	0.152	******
2ND QUARTILE :	1.35	0.18	0.155	0.101	1.126	******
3RD QUARTILE :	1.46	0.33	0.230	0.454	2.739	******

***** : INSUFFICIENT DATA

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF DEPOSITION
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : FORBES TWSP/DAILY/SES #13
START TIME : OCT 5,81 END TIME : DEC31,81

	PRECIP. MM	FREE H+ FIELD MG/M**2	FREE H+ LAB MG/M**2	TOTAL H+ MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2
# OF SAMPLES :	39.0	10.00	33.00	16.000	26.00	26.00
MAXIMUM :	18.9	0.97	1.06	1.761	45.36	3.78
MINIMUM :	0.1	0.04	0.00	0.067	0.04	0.00
RANGE :	18.8	0.93	1.06	1.695	45.32	3.78
ARITH. MEAN :	2.7	0.30	0.10	0.333	4.46	0.95
ARITH. STD. DEV :	4.2	0.31	0.19	0.407	8.92	0.98
GEOM. MEAN :	1.0	0.19	0.03	0.230	1.51	0.46
GEOM. STD. DEV. :	1.5	1.02	1.63	0.805	1.61	1.54
1ST QUARTILE :	0.3	0.09	0.01	0.139	0.61	0.19
2ND QUARTILE :	0.8	0.21	0.03	0.218	1.50	0.68
3RD QUARTILE :	3.2	0.26	0.09	0.305	3.73	1.29

***** : INSUFFICIENT DATA
NOTE : PRECIP. VALUES REPRESENT GAUGE DEPTHS

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF DEPOSITION
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : FORBES TWSP/DAILY/SES #13
START TIME : OCT 5,81 END TIME : DEC31,81

	CALCIUM MG/M**2	CHLORIDE MG/M**2	MAGNESIM MG/M**2	POTASSIM MG/M**2	SODIUM MG/M**2	AMMONIUM AS N MG/M**2
# OF SAMPLES :	20.00	26.00	20.000	20.000	20.000	21.000
MAXIMUM :	1.13	0.83	0.099	1.024	0.800	2.759
MINIMUM :	0.04	0.00	0.003	0.007	0.016	0.005
RANGE :	1.09	0.82	0.096	1.017	0.784	2.754
ARITH. MEAN :	0.31	0.12	0.030	0.133	0.179	0.649
ARITH. STD. DEV :	0.31	0.17	0.029	0.230	0.239	0.736
GEOM. MEAN :	0.20	0.06	0.019	0.060	0.092	0.275
GEOM. STD. DEV. :	1.00	1.24	0.981	1.225	1.152	1.643
1ST QUARTILE :	0.09	0.02	0.009	0.024	0.039	0.108
2ND QUARTILE :	0.18	0.06	0.017	0.073	0.086	0.392
3RD QUARTILE :	0.42	0.16	0.046	0.103	0.180	0.888

***** : INSUFFICIENT DATA

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF DEPOSITION
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : QUETICO CENTRE/DAILY/SFS #14
START TIME : OCT17.81 END TIME : DEC31.81

	PRECIP. MM	FREE H+ FIELD MG/M**2	FREE H+ LAB MG/M**2	TOTAL H+ MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2
# OF SAMPLES :	29.0	4.00	27.00	10.000	25.00	25.00
MAXIMUM :	12.0	0.35	0.35	0.727	10.93	4.57
MINIMUM :	0.1	0.06	0.00	0.126	0.15	0.06
RANGE :	11.9	0.29	0.35	0.602	10.78	4.52
ARITH. MEAN :	2.4	0.20	0.07	0.329	2.27	1.11
ARITH. STD. DEV :	2.8	0.16	0.10	0.202	2.88	1.30
GEOM. MEAN :	1.4	0.15	0.03	0.282	1.19	0.55
GEOM. STD. DEV. :	1.1	0.95	1.38	0.580	1.19	1.29
1ST QUARTILE :	0.7	0.07	0.01	0.176	0.49	0.19
2ND QUARTILE :	1.1	0.21	0.03	0.252	1.21	0.48
3RD QUARTILE :	3.4	0.34	0.08	0.389	2.05	1.15

***** : INSUFFICIENT DATA
NOTE : PRECIP. VALUES REPRESENT GAUGE DEPTHS

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF DEPOSITION
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : QUETICO CENTRE/DAILY/SFS #14
START TIME : OCT17,81 END TIME : DEC31,81

	CALCIUM	CHLORIDE	MAGNESIM	POTASSIM	SODIUM	AMMONIUM AS N
	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2
# OF SAMPLES :	19.00	25.00	19.000	19.000	19.000	15.000
MAXIMUM :	1.50	0.56	0.211	0.150	0.300	2.700
MINIMUM :	0.04	0.03	0.002	0.008	0.017	0.003
RANGE :	1.46	0.53	0.210	0.142	0.283	2.697
ARITH. MEAN :	0.31	0.16	0.029	0.064	0.124	0.693
ARITH. STD. DEV :	0.41	0.12	0.052	0.048	0.095	0.766
GEOM. MEAN :	0.16	0.12	0.012	0.045	0.089	0.290
GEOM. STD. DEV. :	1.09	0.80	1.243	0.941	0.902	1.834
1ST QUARTILE :	0.06	0.07	0.004	0.019	0.038	0.158
2ND QUARTILE :	0.10	0.13	0.010	0.047	0.088	0.365
3RD QUARTILE :	0.28	0.21	0.022	0.104	0.194	0.995

***** : INSUFFICIENT DATA

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF DEPOSITION
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : LAC LA CROIX/DAILY/AEROCHEM #15
START TIME : SEP24.81 END TIME : SEP28.81

	PRECIP. MM	FREE H+ FIELD MG/M**2	FREE H+ LAB MG/M**2	TOTAL H+ MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2
# OF SAMPLES :	3.0	1.00	3.00	1.000	3.00	3.00
MAXIMUM :	13.1	0.37	0.11	0.466	7.60	0.99
MINIMUM :	1.0	0.37	0.07	0.466	4.59	0.52
RANGE :	12.1	0.0	0.04	0.0	3.02	0.47
ARITH. MEAN :	5.3	******	0.09	******	6.28	0.81
ARITH. STD. DEV :	6.7	******	0.02	******	1.54	0.25
GEOM. MEAN :	2.9	******	0.09	******	6.14	0.78
GEOM. STD. DEV. :	1.3	******	0.24	******	0.26	0.35
1ST QUARTILE :	******	******	******	******	******	******
2ND QUARTILE :	******	******	******	******	******	******
3RD QUARTILE :	******	******	******	******	******	******

***** : INSUFFICIENT DATA
NOTE : PRECIP. VALUES REPRESENT GAUGE DEPTHS

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF DEPOSITION
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : LAC LA CROIX/DAILY/AEROCHEM #15
START TIME : SEP24,81 END TIME : SEP28,81

	CALCIUM MG/M**2	CHLORIDE MG/M**2	MAGNESIM MG/M**2	POTASSIM MG/M**2	SODIUM MG/M**2	AMMONIUM AS N MG/M**2
# OF SAMPLES :	1.00	3.00	1.000	1.000	1.000	2.000
MAXIMUM :	0.79	0.52	0.065	0.786	0.393	1.127
MINIMUM :	0.79	0.27	0.065	0.786	0.393	0.874
RANGE :	0.0	0.26	0.0	0.0	0.0	0.253
ARITH. MEAN :	******	0.44	******	******	******	1.000
ARITH. STD. DEV :	******	0.15	******	******	******	0.179
GEOM. MEAN :	******	0.42	******	******	******	0.992
GEOM. STD. DEV. :	******	0.39	******	******	******	0.180
1ST QUARTILE :	******	******	******	******	******	******
2ND QUARTILE :	******	******	******	******	******	******
3RD QUARTILE :	******	******	******	******	******	******

***** : INSUFFICIENT DATA

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF DEPOSITION
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : LAC LA CROIX/DAILY/SES #15
START TIME : NOV18.81 END TIME : DEC12.81

	PRECIP. MM	FREE H+ FIELD MG/M**2	FREE H+ LAB MG/M**2	TOTAL H+ MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2
# OF SAMPLES :	6.0	0.0	6.00	3.000	4.00	4.00
MAXIMUM :	10.0	******	0.62	1.070	23.50	8.50
MINIMUM :	0.3	******	0.01	0.389	0.44	0.11
RANGE :	9.7	******	0.61	0.681	23.06	8.39
ARITH. MEAN :	3.9	******	0.18	0.644	7.73	3.50
ARITH. STD. DEV :	3.9	******	0.23	0.371	10.65	3.58
GEOM. MEAN :	2.1	******	0.08	0.582	3.28	1.59
GEOM. STD. DEV. :	1.4	******	1.57	0.537	1.64	1.89
1ST QUARTILE :	0.5	******	0.02	******	1.45	1.10
2ND QUARTILE :	2.8	******	0.11	******	3.48	2.71
3RD QUARTILE :	5.6	******	0.18	******	14.01	5.91

***** : INSUFFICIENT DATA
NOTE : PRECIP. VALUES REPRESENT GAUGE DEPTHS

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF DEPOSITION
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : LAC LA CROIX/DAILY/SES #15
START TIME : NOV18,81 END TIME : DEC12,81

	CALCIUM	CHLORIDE	MAGNESIM	POTASSIM	SODIUM	AMMONIUM AS N
	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2
# OF SAMPLES :	4.00	4.00	4.000	4.000	4.000	5.000
MAXIMUM :	2.70	0.90	0.150	0.500	1.100	5.500
MINIMUM :	0.06	0.10	0.006	0.006	0.070	0.038
RANGE :	2.64	0.80	0.144	0.494	1.030	5.462
ARITH. MEAN :	0.96	0.38	0.054	0.176	0.439	1.422
ARITH. STD. DEV :	1.23	0.37	0.066	0.222	0.488	2.300
GEOM. MEAN :	0.38	0.26	0.029	0.073	0.229	0.465
GEOM. STD. DEV. :	1.76	1.02	1.344	1.825	1.407	1.801
1ST QUARTILE :	0.10	0.12	0.012	0.038	0.070	0.187
2ND QUARTILE :	0.54	0.26	0.030	0.100	0.293	0.343
3RD QUARTILE :	1.82	0.64	0.096	0.314	0.808	0.618

***** : INSUFFICIENT DATA

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF DEPOSITION
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : FERNBERG/DAILY/SES #16
START TIME : OCT 2,81 END TIME : DEC31,81

	PRECIP. MM	FREE H+ FIELD MG/M**2	FREE H+ LAB MG/M**2	TOTAL H+ MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2
# OF SAMPLES :	25.0	3.00	24.00	17.000	24.00	24.00
MAXIMUM :	14.0	0.25	0.92	1.257	14.16	10.08
MINIMUM :	0.1	0.04	0.00	0.116	0.15	0.00
RANGE :	13.9	0.21	0.92	1.141	14.01	10.08
ARITH. MEAN :	4.7	0.14	0.13	0.367	3.80	1.30
ARITH. STD. DEV :	4.1	0.11	0.20	0.281	3.58	2.08
GEOM. MEAN :	2.7	0.11	0.05	0.299	2.27	0.53
GEOM. STD. DEV. :	1.3	0.92	1.65	0.627	1.19	1.68
1ST QUARTILE :	1.1	******	0.02	0.189	1.02	0.34
2ND QUARTILE :	3.6	******	0.07	0.220	3.02	0.77
3RD QUARTILE :	5.9	******	0.14	0.480	4.62	1.05

***** : INSUFFICIENT DATA
NOTE : PRECIP. VALUES REPRESENT GAUGE DEPTHS

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF DEPOSITION
APIOS - ACID PRECIPITATION IN ONTARIO STUDY

STATION NAME : FERNBERG/DAILY/SES #16
START TIME : OCT 2,81 END TIME : DEC31,81

	CALCIUM MG/M**2	CHLORIDE MG/M**2	MAGNESIM MG/M**2	POTASSIM MG/M**2	SODIUM MG/M**2	AMMONIUM AS N MG/M**2
# OF SAMPLES :	21.00	24.00	21.000	21.000	21.000	21.000
MAXIMUM :	2.10	0.84	0.406	0.385	1.475	1.624
MINIMUM :	0.01	0.01	0.002	0.006	0.006	0.001
RANGE :	2.09	0.83	0.404	0.379	1.469	1.623
ARITH. MEAN :	0.34	0.17	0.059	0.104	0.251	0.537
ARITH. STD. DEV :	0.48	0.20	0.105	0.105	0.352	0.499
GEOM. MEAN :	0.14	0.10	0.022	0.062	0.112	0.195
GEOM. STD. DEV. :	1.58	1.09	1.381	1.104	1.365	2.198
1ST QUARTILE :	0.04	0.05	0.010	0.028	0.040	0.075
2ND QUARTILE :	0.18	0.07	0.015	0.059	0.099	0.417
3RD QUARTILE :	0.38	0.22	0.043	0.126	0.291	0.723

***** : INSUFFICIENT DATA

PART V

DAILY PRECIPITATION CHEMISTRY LISTINGS

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : MELBOURNE/DAILY/AEROCHEM #01

SAMPLE DATE	INITIAL DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
NOV 4,80	NOV 3,80	800	800	****	****	1	1.1	1	240	2	1	80	CF	EL
NOV 5,80	NOV 4,80	800	900	****	1000	1	0.4	1	2174	2	1	****	EFI	
NOV 7,80	NOV 6,80	900	900	****	****	1	0.6	1	242	2	1	36		N
NOV 8,80	NOV 7,80	900	900	****	****	1	4.2	1	243	2	1	95		
NOV 9,80	NOV 8,80	900	900	****	****	1	0.4	1	244	2	1	11		N
NOV 14,80	NOV 13,80	900	900	****	****	1	2.2	1	245	2	1	82	D	
NOV 18,80	NOV 17,80	900	900	****	****	2	0.4	1	246	2	1	58	D	
NOV 22,80	NOV 21,80	900	900	800	1000	1	****	*	2175	2	1	****	E	
NOV 24,80	NOV 23,80	800	800	****	****	1	****	*	2176	2	1	****	E	
NOV 25,80	NOV 24,80	800	900	****	****	3	3.4	1	249	2	1	48		N
NOV 29,80	NOV 28,80	900	900	****	****	2	7.0	1	250	2	1	48		N
DEC 2,80	DEC 1,80	900	900	230	900	1	14.5	1	251	2	1	120		
DEC 3,80	DEC 2,80	900	900	****	****	2	****	*	252	2	1	****		
DEC 7,80	DEC 6,80	900	900	****	****	1	4.6	1	253	2	1	100		
DEC 9,80	DEC 8,80	900	900	****	****	3	12.5	2	254	2	1	89		
DEC 10,80	DEC 9,80	900	900	****	****	2	1.6	1	255	2	1	71		
DEC 12,80	DEC 11,80	900	900	****	****	2	1.2	1	256	2	1	****		
DEC 17,80	DEC 16,80	900	900	****	****	2	0.6	1	2177	2	1	****	E	
DEC 24,80	DEC 23,80	900	900	****	****	2	11.0	1	258	2	1	78		J
DEC 30,80	DEC 29,80	900	900	****	****	2	****	*	259	2	1	****		
JAN 4,81	JAN 3,81	900	900	****	****	2	3.2	1	260	2	1	15		
JAN 16,81	JAN 15,81	900	900	****	****	2	****	*	261	2	1	****		L
JAN 17,81	JAN 16,81	900	900	****	****	2	****	*	262	2	1	****		L
JAN 28,81	JAN 27,81	900	900	****	****	2	****	*	263	2	1	****		L
JAN 29,81	JAN 28,81	900	900	****	****	2	****	*	2178	2	1	****	GIE	C
JAN 30,81	JAN 29,81	900	900	****	****	2	****	*	264	2	1	****		
FEB 1,81	JAN 31,81	900	900	****	****	2	****	*	265	2	1	****		L
FEB 2,81	FEB 1,81	900	900	****	****	3	****	*	266	2	1	****		
FEB 3,81	FEB 2,81	900	900	****	****	2	****	*	267	2	1	****		
FEB 10,81	FEB 9,81	900	900	****	****	2	****	*	2475	2	1	****		
MAY 10,81	MAY 9,81	900	900	****	****	1	2.4	1	18001	2	1	51	A	
MAY 11,81	MAY 10,81	900	900	****	****	1	11.2	1	18002	2	1	91		
MAY 12,81	MAY 11,81	900	900	****	****	1	8.0	1	18003	2	1	94		
MAY 15,81	MAY 14,81	900	900	900	900	1	5.6	1	18004	2	1	88		
MAY 16,81	MAY 15,81	900	900	****	****	1	1.8	1	18005	2	1	28		
MAY 25,81	MAY 24,81	900	900	****	****	1	1.4	1	18006	2	1	45		
MAY 27,81	MAY 26,81	900	900	****	****	1	1.0	1	18007	2	1	71		
MAY 28,81	MAY 27,81	900	900	****	****	1	4.8	1	18008	2	1	80		
MAY 30,81	MAY 29,81	900	900	****	****	1	3.6	1	18009	2	1	91		
JUN 3,81	JUN 2,81	900	900	****	****	1	1.2	1	18010	2	1	83		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : MELBOURNE/DAILY/AEROCHEM #01

SAMPLE DATE	INITIAL DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ MG/L	SULPHATE MG/L	NITRATE AS N MG/L
NOV 4,80	NOV 3,80	57.	*****	*****	U 6.96	*****	11.60	3.24
NOV 5,80	NOV 4,80	*****	*****	*****	*****	*****	*****	*****
NOV 7,80	NOV 6,80	U 14.	*****	*****	*****	*****	*****	*****
NOV 8,80	NOV 7,80	256.	26.5	*****	4.58	0.063	3.55	0.89
NOV 9,80	NOV 8,80	U 3.	*****	*****	*****	*****	*****	*****
NOV 14,80	NOV 13,80	116.	*****	*****	4.14	*****	3.70	0.94
NOV 18,80	NOV 17,80	15.	*****	*****	6.36	*****	*****	*****
NOV 22,80	NOV 21,80	*****	*****	*****	*****	*****	*****	*****
NOV 24,80	NOV 23,80	*****	*****	*****	*****	*****	*****	*****
NOV 25,80	NOV 24,80	U 106.	*****	*****	4.43	*****	2.50	0.70
NOV 29,80	NOV 28,80	U 219.	52.0	*****	3.92	*****	3.05	1.08
DEC 2,80	DEC 1,80	1120.	38.0	3.87	3.97	0.126	2.60	0.75
DEC 3,80	DEC 2,80	23.	*****	*****	4.31	*****	*****	*****
DEC 7,80	DEC 6,80	297.	34.5	*****	4.04	0.111	3.00	0.65
DEC 9,80	DEC 8,80	716.	20.0	4.26	4.38	0.067	2.05	0.25
DEC 10,80	DEC 9,80	73.	*****	*****	5.46	*****	0.75	0.21
DEC 12,80	DEC 11,80	*****	*****	*****	6.31	*****	*****	*****
DEC 17,80	DEC 16,80	*****	*****	*****	*****	*****	*****	*****
DEC 24,80	DEC 23,80	552.	8.1	4.25	5.30	0.041	0.55	0.36
DEC 30,80	DEC 29,80	145.	*****	*****	*****	*****	*****	*****
JAN 4,81	JAN 3,81	32.	*****	*****	6.22	*****	*****	*****
JAN 16,81	JAN 15,81	44.	*****	*****	3.67	*****	8.80	4.55
JAN 17,81	JAN 16,81	75.	*****	*****	5.39	*****	1.70	1.36
JAN 28,81	JAN 27,81	207.	*****	*****	4.40	0.092	5.40	0.90
JAN 29,81	JAN 28,81	*****	*****	*****	*****	*****	*****	*****
JAN 30,81	JAN 29,81	28.	*****	*****	6.86	*****	*****	*****
FEB 1,81	JAN 31,81	436.	29.5	*****	4.43	0.077	3.75	0.54
FEB 2,81	FEB 1,81	32.	*****	*****	4.76	*****	*****	*****
FEB 3,81	FEB 2,81	4.	*****	*****	*****	*****	*****	*****
FEB 10,81	FEB 9,81	29.	*****	*****	*****	*****	*****	*****
MAY 10,81	MAY 9,81	79.	*****	*****	3.08	*****	14.50	11.60
MAY 11,81	MAY 10,81	659.	37.2	4.07	4.09	0.110	3.35	0.45
MAY 12,81	MAY 11,81	486.	24.8	4.23	4.33	0.075	2.35	0.36
MAY 15,81	MAY 14,81	319.	58.0	*****	4.07	0.149	3.15	1.00
MAY 16,81	MAY 15,81	33.	*****	*****	3.52	*****	> 10.00	> 2.00
MAY 25,81	MAY 24,81	41.	*****	*****	3.85	*****	4.40	1.46
MAY 27,81	MAY 26,81	46.	*****	*****	3.64	*****	12.20	2.80
MAY 28,81	MAY 27,81	247.	58.0	*****	3.89	0.164	5.30	1.20
MAY 30,81	MAY 29,81	211.	*****	*****	5.00	*****	0.90	0.19
JUN 3,81	JUN 2,81	64.	*****	*****	3.90	*****	5.90	1.18

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : MELBOURNE/DAILY/AEROCHEM #01

SAMPLE DATE	INITIAL DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
NOV 4,80	NOV 3,80	*****	*****	*****	*****	*****	*****
NOV 5,80	NOV 4,80	*****	*****	*****	*****	*****	*****
NOV 7,80	NOV 6,80	*****	*****	*****	*****	*****	*****
NOV 8,80	NOV 7,80	0.97	0.16	0.105	0.060	0.050	0.920
NOV 9,80	NOV 8,80	*****	*****	*****	*****	*****	*****
NOV 14,80	NOV 13,80	0.89	0.24	0.130	0.100	0.160	*****
NOV 18,80	NOV 17,80	*****	*****	*****	*****	*****	*****
NOV 22,80	NOV 21,80	*****	*****	*****	*****	*****	*****
NOV 24,80	NOV 23,80	*****	*****	*****	*****	*****	*****
NOV 25,80	NOV 24,80	0.29	0.38	0.040	0.180	0.270	*****
NOV 29,80	NOV 28,80	0.20	0.27	0.030	0.050	0.120	0.306
DEC 2,80	DEC 1,80	0.16	0.18	0.025	0.030	0.080	0.370
DEC 3,80	DEC 2,80	*****	*****	*****	*****	*****	*****
DEC 7,80	DEC 6,80	0.20	0.23	0.030	0.050	0.170	0.440
DEC 9,80	DEC 8,80	0.10	0.27	0.025	0.050	0.140	0.286
DEC 10,80	DEC 9,80	*****	0.29	*****	*****	*****	*****
DEC 12,80	DEC 11,80	*****	*****	*****	*****	*****	*****
DEC 17,80	DEC 16,80	*****	*****	*****	*****	*****	*****
DEC 24,80	DEC 23,80	0.54	0.22	0.095	0.020	0.090	0.082
DEC 30,80	DEC 29,80	*****	*****	*****	*****	*****	*****
JAN 4,81	JAN 3,81	*****	*****	*****	*****	*****	*****
JAN 16,81	JAN 15,81	*****	2.10	*****	*****	*****	*****
JAN 17,81	JAN 16,81	*****	0.54	*****	*****	*****	*****
JAN 28,81	JAN 27,81	1.26	1.12	0.235	0.060	0.280	1.570
JAN 29,81	JAN 28,81	*****	*****	*****	*****	*****	*****
JAN 30,81	JAN 29,81	*****	*****	*****	*****	*****	*****
FEB 1,81	JAN 31,81	0.80	0.52	0.140	0.040	0.360	0.410
FEB 2,81	FEB 1,81	*****	*****	*****	*****	*****	*****
FEB 3,81	FEB 2,81	*****	*****	*****	*****	*****	*****
FEB 10,81	FEB 9,81	*****	*****	*****	*****	*****	*****
MAY 10,81	MAY 9,81	*****	0.44	*****	*****	*****	*****
MAY 11,81	MAY 10,81	0.15	0.11	0.015	0.020	0.050	0.204
MAY 12,81	MAY 11,81	0.12	0.09	0.015	0.030	0.060	0.332
MAY 15,81	MAY 14,81	*****	0.32	*****	*****	*****	0.720
MAY 16,81	MAY 15,81	*****	0.64	*****	*****	*****	*****
MAY 25,81	MAY 24,81	*****	0.56	*****	*****	*****	*****
MAY 27,81	MAY 26,81	*****	0.72	*****	*****	*****	*****
MAY 28,81	MAY 27,81	0.26	0.28	0.040	0.100	0.130	0.720
MAY 30,81	MAY 29,81	0.12	0.14	0.020	0.040	0.110	0.216
JUN 3,81	JUN 2,81	*****	0.39	*****	*****	*****	*****

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : MELBOURNE/DAILY/AEROCHEM #01 PAGE : 4

SAMPLE DATE	INITIAL DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
JUN 4,81	JUN 3,81	900	900	****	****	1	5.6	1	18011	2	1	93		
JUN 9,81	JUN 8,81	900	900	****	****	1	11.2	1	18012	2	1	104	A	
JUN 10,81	JUN 9,81	900	900	****	800	1	1.4	1	18013	2	1	63		
JUN 14,81	JUN 13,81	900	900	****	****	1	14.2	1	18014	2	1	97		A
JUN 15,81	JUN 14,81	900	900	****	****	1	12.8	1	18015	2	1	101		
JUN 17,81	JUN 16,81	900	900	****	****	1	3.6	1	18016	2	1	82		
JUN 20,81	JUN 19,81	900	900	****	****	1	3.0	1	18018	2	1	89		
JUN 21,81	JUN 20,81	900	900	****	****	1	5.8	1	18017	2	1	83		
JUN 22,81	JUN 21,81	900	900	****	****	1	20.6	1	18019	2	1	102		
JUN 25,81	JUN 24,81	900	900	****	****	1	1.6	1	18020	2	1	70		
JUL 1,81	JUN 30,81	900	900	****	****	1	3.8	1	18021	2	1	77		
JUL 10,81	JUL 9,81	900	900	****	****	1	1.0	1	18022	2	1	73		
JUL 18,81	JUL 17,81	900	900	****	****	1	11.2	1	18023	2	1	100		
JUL 19,81	JUL 18,81	900	900	****	****	1	1.2	1	18024	2	1	118	C	
JUL 20,81	JUL 19,81	900	900	****	****	1	10.6	1	18025	2	1	90		
JUL 27,81	JUL 26,81	900	900	****	****	1	1.4	1	18026	2	1	111		
AUG 5,81	AUG 4,81	900	900	2000	2100	1	5.6	1	18029	2	1	100	AC	
AUG 6,81	AUG 5,81	900	900	****	****	1	4.0	1	18030	2	1	86		
AUG 8,81	AUG 7,81	900	900	****	****	1	5.8	1	18031	2	1	96	A	
AUG 9,81	AUG 8,81	900	900	****	****	1	3.2	1	18032	2	1	70		
AUG 11,81	AUG 10,81	900	900	****	****	1	3.2	1	18033	2	1	76		
AUG 12,81	AUG 11,81	900	900	****	****	1	0.8	1	18034	2	1	87	C	
AUG 14,81	AUG 13,81	900	900	****	****	1	9.8	1	18035	2	1	101		
AUG 15,81	AUG 14,81	900	900	****	****	1	9.0	1	18036	2	1	94		
AUG 16,81	AUG 15,81	900	900	****	****	1	2.2	1	18037	2	1	79		
AUG 28,81	AUG 27,81	900	900	****	****	1	4.6	1	18038	2	1	64		
AUG 31,81	AUG 30,81	900	900	****	****	1	6.0	1	18039	2	1	91		
SEP 2,81	SEP 1,81	900	900	****	****	1	9.6	1	18040	2	1	97	A	
SEP 4,81	SEP 3,81	900	900	****	****	1	19.2	1	18041	2	1	100		
SEP 8,81	SEP 7,81	900	1600	****	****	*	3.8	1	18042	2	1	87		
SEP 17,81	SEP 16,81	1630	1630	****	****	1	25.0	1	18043	2	1	149		N
SEP 19,81	SEP 18,81	1630	1930	****	****	1	3.0	1	18044	2	1	89	A	
SEP 21,81	SEP 20,81	1630	1630	****	****	1	3.0	1	18045	2	1	86		
SEP 22,81	SEP 21,81	1630	1630	****	****	1	18.9	1	18046	2	1	99		
SEP 25,81	SEP 24,81	1630	1630	****	****	1	1.6	1	18047	2	1	61	C	
SEP 26,81	SEP 25,81	1630	1630	****	****	1	2.2	1	18048	2	1	60		
SEP 29,81	SEP 28,81	1630	1630	****	****	1	0.8	1	18049	2	1	85	C	
OCT 1,81	SEP 30,81	1630	1630	****	****	1	45.2	1	18050	2	1	138		N
OCT 2,81	OCT 1,81	1630	1630	****	****	3	7.2	1	18051	2	1	70		
OCT 6,81	OCT 5,81	1630	1630	****	****	1	****	*	18052	2	1	****		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : MELBOURNE/DAILY/AEROCHEM #01

SAMPLE DATE	INITIAL DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ MG/L	SULPHATE MG/L	NITRATE AS N MG/L
JUN 4,81	JUN 3,81	337.	34.6	*****	4.13	0.103	3.35	0.41
JUN 9,81	JUN 8,81	750.	29.4	*****	4.34	0.079	3.80	0.47
JUN 10,81	JUN 9,81	57.	*****	*****	4.13	*****	6.70	0.83
JUN 14,81	JUN 13,81	884.	39.8	*****	4.04	0.125	3.95	0.43
JUN 15,81	JUN 14,81	831.	13.4	*****	4.61	0.051	1.30	0.14
JUN 17,81	JUN 16,81	190.	*****	*****	4.26	*****	3.70	0.55
JUN 20,81	JUN 19,81	172.	*****	*****	3.68	*****	11.60	1.62
JUN 21,81	JUN 20,81	309.	76.0	*****	3.78	0.196	8.35	0.90
JUN 22,81	JUN 21,81	1351.	24.5	*****	4.26	0.082	2.20	0.34
JUN 25,81	JUN 24,81	72.	*****	*****	3.84	*****	7.00	1.46
JUL 1,81	JUN 30,81	190.	*****	*****	4.22	*****	3.40	0.51
JUL 10,81	JUL 9,81	47.	*****	*****	4.32	*****	12.50	1.60
JUL 18,81	JUL 17,81	722.	52.0	*****	4.02	0.129	4.80	0.78
JUL 19,81	JUL 18,81	91.	*****	*****	3.54	*****	18.20	3.10
JUL 20,81	JUL 19,81	614.	54.0	*****	3.97	0.140	5.60	0.53
JUL 27,81	JUL 26,81	100.	*****	*****	3.82	*****	8.30	0.36
AUG 5,81	AUG 4,81	360.	53.5	*****	4.23	0.111	8.55	0.86
AUG 6,81	AUG 5,81	222.	*****	*****	3.99	*****	4.60	0.65
AUG 8,81	AUG 7,81	360.	32.1	*****	4.19	0.100	2.70	0.50
AUG 9,81	AUG 8,81	145.	*****	*****	4.18	*****	3.15	0.50
AUG 11,81	AUG 10,81	156.	*****	*****	4.02	*****	7.15	1.03
AUG 12,81	AUG 11,81	45.	*****	*****	4.06	*****	*****	*****
AUG 14,81	AUG 13,81	636.	33.2	*****	4.46	0.089	4.60	0.71
AUG 15,81	AUG 14,81	544.	51.5	*****	3.99	0.143	4.30	0.67
AUG 16,81	AUG 15,81	112.	*****	*****	3.92	*****	6.80	0.55
AUG 28,81	AUG 27,81	190.	*****	*****	3.36	*****	21.50	2.11
AUG 31,81	AUG 30,81	352.	31.6	*****	4.24	0.087	3.40	0.45
SEP 2,81	SEP 1,81	600.	45.0	3.96	4.01	0.121	4.25	0.52
SEP 4,81	SEP 3,81	1237.	32.8	4.09	4.15	0.095	2.70	0.46
SEP 8,81	SEP 7,81	213.	*****	*****	3.99	*****	4.95	0.66
SEP 17,81	SEP 16,81	2401.	19.2	4.30	4.44	0.065	1.50	0.22
SEP 19,81	SEP 18,81	172.	*****	*****	4.78	*****	4.75	1.29
SEP 21,81	SEP 20,81	167.	*****	*****	3.68	*****	13.70	2.38
SEP 22,81	SEP 21,81	1206.	43.5	3.97	4.03	0.126	3.75	0.71
SEP 25,81	SEP 24,81	63.	*****	*****	4.06	*****	7.15	1.06
SEP 26,81	SEP 25,81	85.	*****	*****	3.93	*****	6.20	1.25
SEP 29,81	SEP 28,81	44.	*****	*****	4.54	*****	4.05	0.50
OCT 1,81	SEP 30,81	4005.	21.8	4.30	4.36	0.070	2.05	0.21
OCT 2,81	OCT 1,81	325.	8.8	*****	4.85	0.041	1.40	0.03
OCT 6,81	OCT 5,81	446.	33.2	*****	4.25	0.090	2.90	0.56

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : MELBOURNE/DAILY/AEROCHEM #01

SAMPLE DATE	INITIAL DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
JUN 4,81	JUN 3,81	0.23	0.28	0.035	0.030	0.040	0.220
JUN 9,81	JUN 8,81	0.30	0.30	0.040	0.050	0.050	0.800
JUN 10,81	JUN 9,81	*****	0.52	*****	*****	*****	*****
JUN 14,81	JUN 13,81	0.09	0.19	0.010	0.010	0.030	0.346
JUN 15,81	JUN 14,81	0.04	0.15	0.100	0.200	0.060	0.154
JUN 17,81	JUN 16,81	0.30	0.26	0.065	0.030	0.110	0.570
JUN 20,81	JUN 19,81	0.89	0.34	0.130	0.090	0.120	1.520
JUN 21,81	JUN 20,81	0.34	0.18	0.065	0.090	0.090	1.040
JUN 22,81	JUN 21,81	0.10	0.06	0.010	0.010	0.020	0.208
JUN 25,81	JUN 24,81	*****	0.47	*****	*****	*****	*****
JUL 1,81	JUN 30,81	0.21	0.10	0.065	0.200	0.060	0.480
JUL 10,81	JUL 9,81	*****	2.00	*****	*****	*****	*****
JUL 18,81	JUL 17,81	0.48	0.32	0.110	0.050	0.100	0.490
JUL 19,81	JUL 18,81	2.93	1.11	0.565	0.250	0.580	*****
JUL 20,81	JUL 19,81	0.07	0.16	0.010	0.010	0.090	0.600
JUL 27,81	JUL 26,81	0.13	0.32	0.015	0.030	0.320	*****
AUG 5,81	AUG 4,81	0.93	0.34	0.185	0.090	0.200	1.680
AUG 6,81	AUG 5,81	0.20	0.40	0.025	0.030	0.300	0.300
AUG 8,81	AUG 7,81	0.17	0.12	0.040	0.020	0.010	0.260
AUG 9,81	AUG 8,81	0.19	0.45	0.040	0.040	0.470	0.234
AUG 11,81	AUG 10,81	0.75	0.50	0.155	0.090	0.270	1.180
AUG 12,81	AUG 11,81	*****	*****	*****	*****	*****	*****
AUG 14,81	AUG 13,81	1.09	0.27	0.170	0.070	0.140	0.720
AUG 15,81	AUG 14,81	0.24	0.20	0.040	0.020	0.150	0.206
AUG 16,81	AUG 15,81	0.15	0.48	0.025	0.040	0.520	*****
AUG 28,81	AUG 27,81	0.78	0.72	0.140	0.160	0.410	1.260
AUG 31,81	AUG 30,81	0.18	0.26	0.020	0.050	0.240	0.440
SEP 2,81	SEP 1,81	0.16	0.20	0.025	0.040	0.150	0.334
SEP 4,81	SEP 3,81	0.11	0.18	< 0.005	0.020	0.030	0.224
SEP 8,81	SEP 7,81	0.16	0.38	0.035	0.050	0.260	0.590
SEP 17,81	SEP 16,81	0.04	0.04	0.020	0.010	0.020	0.146
SEP 19,81	SEP 18,81	1.74	0.56	0.260	0.190	0.450	0.980
SEP 21,81	SEP 20,81	2.70	0.75	0.230	0.150	0.420	1.710
SEP 22,81	SEP 21,81	0.24	0.16	0.040	0.300	0.100	0.430
SEP 25,81	SEP 24,81	*****	0.51	*****	*****	*****	*****
SEP 26,81	SEP 25,81	0.95	0.28	0.155	0.090	0.130	*****
SEP 29,81	SEP 28,81	*****	1.04	*****	*****	*****	*****
OCT 1,81	SEP 30,81	0.06	< 0.01	< 0.005	< 0.010	0.040	0.148
OCT 2,81	OCT 1,81	0.06	0.10	< 0.005	0.030	0.190	0.178
OCT 6,81	OCT 5,81	0.20	0.23	0.030	0.030	0.210	0.440

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : MELBOURNE/DAILY/AEROCHEM #01

SAMPLE DATE	INITIAL DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
OCT 7,81	OCT 6,81	1630	1630	****	****	1	2.4	1	18053	2	1	30	C	
OCT 9,81	OCT 8,81	1630	1630	****	****	1	4.4	1	18054	2	1	25	CD	N
OCT 17,81	OCT 16,81	1630	1630	****	****	1	1.2	1	18055	2	1	39	D	
OCT 18,81	OCT 17,81	1630	1630	****	****	1	18.2	1	18056	2	1	100		
OCT 21,81	OCT 20,81	800	800	****	****	1	7.4	1	18057	2	1	80		
OCT 23,81	OCT 22,81	800	800	****	****	3	18.6	1	18058	2	1	92		
OCT 26,81	OCT 25,81	800	800	****	****	1	3.4	1	18059	2	1	87		
OCT 27,81	OCT 26,81	800	800	****	****	1	6.0	1	18060	2	1	101		
OCT 28,81	OCT 27,81	800	800	****	****	1	5.2	1	18061	2	1	78		
NOV 6,81	NOV 5,81	800	800	****	****	1	7.4	1	18062	2	1	75		
NOV 7,81	NOV 6,81	800	800	****	****	1	8.4	1	18063	2	1	75		
NOV 20,81	NOV 19,81	800	800	****	****	1	15.0	1	18064	2	1	88		
NOV 21,81	NOV 20,81	800	800	****	****	3	****	*	18065	2	1	****	C	
NOV 22,81	NOV 21,81	800	800	****	****	2	13.6	1	18066	2	1	63	C	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : MELBOURNE/DAILY/AEROCHEM #01

SAMPLE DATE	INITIAL DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ MG/L	SULPHATE MG/L	NITRATE AS N MG/L
OCT 7,81	OCT 6,81	47.	*****	*****	5.55	*****	*****	*****
OCT 9,81	OCT 8,81	U 71.	*****	*****	5.24	*****	1.35	0.05
OCT 17,81	OCT 16,81	30.	*****	*****	4.58	*****	*****	*****
OCT 18,81	OCT 17,81	1171.	22.8	4.29	4.27	0.096	1.90	0.27
OCT 21,81	OCT 20,81	383.	53.0	3.95	4.01	0.137	4.40	1.31
OCT 23,81	OCT 22,81	1098.	14.4	4.46	4.44	0.063	1.20	0.15
OCT 26,81	OCT 25,81	190.	31.3	*****	4.18	0.095	*****	*****
OCT 27,81	OCT 26,81	389.	27.7	4.20	4.22	0.097	2.30	0.30
OCT 28,81	OCT 27,81	263.	18.1	*****	4.42	0.067	1.65	0.20
NOV 6,81	NOV 5,81	360.	33.6	4.24	4.24	0.096	2.15	0.74
NOV 7,81	NOV 6,81	405.	3.9	5.82	5.96	0.023	0.50	< 0.01
NOV 20,81	NOV 19,81	853.	37.4	4.13	4.18	0.106	3.15	0.72
NOV 21,81	NOV 20,81	562.	9.6	5.39	5.35	0.064	1.95	0.25
NOV 22,81	NOV 21,81	553.	40.0	4.09	4.16	0.110	4.40	0.54

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : MELBOURNE/DAILY/AEROCHEM #01

SAMPLE DATE	INITIAL DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
OCT 7,81	OCT 6,81	*****	*****	*****	*****	*****	*****
OCT 9,81	OCT 8,81	*****	0.23	*****	*****	*****	0.196
OCT 17,81	OCT 16,81	*****	*****	*****	*****	*****	*****
OCT 18,81	OCT 17,81	0.16	0.07	0.020	0.010	0.090	0.148
OCT 21,81	OCT 20,81	0.64	0.27	0.070	0.080	0.140	0.940
OCT 23,81	OCT 22,81	0.04	0.06	< 0.005	< 0.010	0.030	0.080
OCT 26,81	OCT 25,81	0.13	*****	0.005	0.010	0.340	0.056
OCT 27,81	OCT 26,81	0.05	0.18	< 0.005	0.020	0.140	0.142
OCT 28,81	OCT 27,81	0.08	0.24	< 0.005	0.020	0.270	0.192
NOV 6,81	NOV 5,81	0.21	0.36	0.030	0.060	0.270	0.358
NOV 7,81	NOV 6,81	0.08	0.10	< 0.005	0.030	0.170	0.146
NOV 20,81	NOV 19,81	0.30	0.15	0.040	0.030	0.100	0.490
NOV 21,81	NOV 20,81	0.13	0.18	< 0.005	0.020	0.150	0.570
NOV 22,81	NOV 21,81	0.50	0.48	0.065	0.100	0.390	0.460

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : MELBOURNE/DAILY/SES #01 PAGE : 1

SAMPLE DATE	INITIAL DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
FEB 6,81	FEB 5,81	900	900	****	****	2	****	*	268	2	1	****	C	L
FEB 11,81	FEB 10,81	900	900	****	****	3	****	*	269	2	1	****		
FEB 17,81	FEB 16,81	900	900	****	****	1	****	*	1627	2	1	****		
FEB 18,81	FEB 17,81	900	900	****	****	1	0.4	1	1628	2	1	60		
FEB 19,81	FEB 18,81	900	800	****	****	1	0.4	2	1629	2	1	57		
FEB 20,81	FEB 19,81	800	800	****	****	1	5.8	2	1630	2	1	105		
FEB 23,81	FEB 22,81	900	900	****	****	1	17.0	2	1631	2	1	101		
FEB 24,81	FEB 23,81	900	900	****	****	1	0.8	2	1632	2	1	166	C	N
FEB 25,81	FEB 24,81	900	900	****	****	3	0.4	2	1633	2	1	118		
FEB 28,81	FEB 27,81	900	900	****	****	1	6.2	2	1634	2	1	109	C	
MAR 5,81	MAR 4,81	900	900	****	****	2	0.6	2	1635	2	1	85		
MAR 6,81	MAR 5,81	900	900	****	****	2	1.6	2	1636	2	1	52		
MAR 10,81	MAR 9,81	900	900	****	****	2	1.2	2	1637	2	1	86		
MAR 11,81	MAR 10,81	900	900	****	****	2	1.2	2	1638	2	1	54	C	
MAR 14,81	MAR 13,81	900	900	****	****	2	2.4	2	1639	2	1	39	C	N
MAR 17,81	MAR 16,81	900	900	****	****	2	2.0	2	1640	2	1	10	H	
MAR 21,81	MAR 20,81	900	900	****	****	2	2.4	2	1641	2	1	65		
MAR 27,81	MAR 26,81	900	900	****	****	1	4.6	2	1642	2	1	118	AC	
MAR 30,81	MAR 29,81	900	900	****	****	1	1.6	2	1643	2	1	152	AC	N
MAR 31,81	MAR 30,81	900	900	****	****	1	2.2	2	1644	2	1	104		
APR 1,81	MAR 31,81	900	900	****	800	1	****	*	1645	2	1	****	AC	
APR 9,81	APR 8,81	900	900	****	****	1	2.0	2	1646	2	1	92	C	EC
APR 11,81	APR 10,81	900	900	****	****	1	8.0	1	1647	2	1	108	ACD	
APR 12,81	APR 11,81	900	900	****	****	1	3.2	1	1648	2	1	114	AC	
APR 13,81	APR 12,81	900	900	****	****	1	4.4	1	1649	2	1	86	C	
APR 14,81	APR 13,81	900	900	****	****	1	31.6	1	1650	2	1	116	A	
APR 17,81	APR 16,81	900	900	****	****	1	4.4	1	2012	2	1	14	CQ	N
APR 18,81	APR 17,81	900	900	****	****	1	17.4	1	2013	2	1	78	AB	
APR 23,81	APR 22,81	900	900	****	****	1	24.2	1	2014	2	1	101	ACQ	J
APR 24,81	APR 23,81	900	1030	****	****	1	****	*	2015	2	1	****		
APR 25,81	APR 24,81	900	900	****	****	1	0.4	1	2016	2	1	28		
APR 28,81	APR 27,81	900	900	****	****	1	16.6	1	2017	2	1	104	A	
APR 29,81	APR 28,81	900	900	****	****	1	8.6	1	2018	2	1	98		
DEC 1,81	NOV 30,81	800	800	****	****	1	30.2	2	18067	2	1	23		NM
DEC 2,81	DEC 1,81	800	800	****	****	1	10.0	2	18068	2	1	102	C	
DEC 5,81	DEC 4,81	800	800	****	****	2	5.4	2	18069	2	1	52		
DEC 8,81	DEC 7,81	800	800	****	****	1	1.0	2	18070	2	1	57	C	
DEC 9,81	DEC 8,81	800	800	****	****	2	4.5	2	18071	2	1	24		NM
DEC 10,81	DEC 9,81	800	800	****	****	2	10.0	2	18072	2	1	19		NM
DEC 14,81	DEC 13,81	800	800	****	****	2	1.6	2	18073	2	1	17	C	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : MELBOURNE/DAILY/SES #01

SAMPLE DATE	INITIAL DATE		VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ MG/L	SULPHATE MG/L	NITRATE AS N MG/L
FEB 6,81	FEB 5,81		200.	37.0	*****	4.16	*****	0.90	1.56
FEB 11,81	FEB 10,81		3222.	26.1	4.05	4.22	0.083	1.95	0.39
FEB 17,81	FEB 16,81		391.	57.0	*****	3.96	0.150	4.35	0.66
FEB 18,81	FEB 17,81		40.	*****	*****	3.30	*****	30.00	5.40
FEB 19,81	FEB 18,81		38.	*****	*****	3.71	*****	*****	*****
FEB 20,81	FEB 19,81		1007.	90.0	*****	3.75	0.223	7.95	1.26
FEB 23,81	FEB 22,81		2833.	29.0	4.07	4.24	0.091	2.25	0.43
FEB 24,81	FEB 23,81		218.	31.5	*****	4.64	*****	2.95	0.60
FEB 25,81	FEB 24,81		78.	*****	*****	6.64	*****	3.75	1.02
FEB 28,81	FEB 27,81		1108.	62.0	3.77	3.95	0.161	6.25	0.95
MAR 5,81	MAR 4,81		84.	*****	*****	4.21	*****	*****	*****
MAR 6,81	MAR 5,81		137.	*****	*****	3.62	*****	9.40	3.60
MAR 10,81	MAR 9,81		170.	*****	*****	4.22	*****	5.85	3.40
MAR 11,81	MAR 10,81		107.	*****	*****	4.21	*****	6.15	2.50
MAR 14,81	MAR 13,81	U	156.	*****	*****	6.90	*****	1.50	0.13
MAR 17,81	MAR 16,81	U	34.	*****	*****	7.55	*****	*****	*****
MAR 21,81	MAR 20,81		258.	19.8	*****	4.56	0.059	2.20	0.38
MAR 27,81	MAR 26,81		894.	46.8	4.37	4.44	0.086	6.95	1.55
MAR 30,81	MAR 29,81		400.	48.5	4.17	4.32	0.100	7.75	0.97
MAR 31,81	MAR 30,81		376.	17.6	4.79	4.94	0.048	2.80	0.48
APR 1,81	MAR 31,81		60.	*****	*****	7.27	*****	*****	*****
APR 9,81	APR 8,81		302.	51.5	*****	7.15	0.041	7.75	1.37
APR 11,81	APR 10,81		1419.	19.6	4.87	5.70	0.036	3.75	0.92
APR 12,81	APR 11,81		600.	22.8	4.80	5.80	0.041	4.90	0.75
APR 13,81	APR 12,81		621.	32.4	4.15	4.17	0.100	4.05	0.34
APR 14,81	APR 13,81		6024.	44.5	*****	4.03	0.126	4.05	0.55
APR 17,81	APR 16,81	U	101.	*****	*****	7.52	*****	> 10.00	1.17
APR 18,81	APR 17,81		2251.	18.6	4.96	5.03	0.047	2.90	0.55
APR 23,81	APR 22,81		4027.	22.0	5.05	6.93	0.049	3.85	0.38
APR 24,81	APR 23,81		1461.	28.6	4.30	4.30	0.083	2.70	0.63
APR 25,81	APR 24,81		19.	*****	*****	6.34	*****	*****	*****
APR 28,81	APR 27,81		2836.	35.0	4.19	4.27	0.092	3.75	0.72
APR 29,81	APR 28,81		1384.	59.0	3.92	3.99	0.153	5.40	0.99
DEC 1,81	NOV 30,81	U	1147.	9.0	4.84	4.75	0.056	0.80	0.14
DEC 2,81	DEC 1,81		1674.	31.8	4.21	4.26	0.111	2.20	0.67
DEC 5,81	DEC 4,81		466.	10.2	5.85	5.66	0.040	1.60	0.26
DEC 8,81	DEC 7,81		94.	*****	*****	6.66	*****	5.75	1.93
DEC 9,81	DEC 8,81	U	183.	*****	*****	6.56	*****	7.90	1.60
DEC 10,81	DEC 9,81	U	316.	5.1	*****	5.98	0.034	0.60	0.04
DEC 14,81	DEC 13,81		45.	*****	*****	6.08	*****	3.85	0.59

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : MELBOURNE/DAILY/SES #01 PAGE : 3

SAMPLE DATE	INITIAL DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
FEB 6,81	FEB 5,81	0.90	0.55	0.150	0.040	0.240	0.220
FEB 11,81	FEB 10,81	0.11	0.19	0.025	0.030	0.060	0.180
FEB 17,81	FEB 16,81	0.10	0.48	0.085	0.040	0.180	0.450
FEB 18,81	FEB 17,81	*****	1.56	*****	*****	*****	*****
FEB 19,81	FEB 18,81	*****	*****	*****	*****	*****	*****
FEB 20,81	FEB 19,81	0.14	0.23	0.035	0.030	0.070	0.950
FEB 23,81	FEB 22,81	0.06	0.09	0.010	0.050	0.050	0.220
FEB 24,81	FEB 23,81	0.33	0.45	0.060	0.350	0.330	0.540
FEB 25,81	FEB 24,81	*****	0.74	*****	*****	*****	1.020
FEB 28,81	FEB 27,81	0.78	0.45	0.115	0.050	0.200	0.620
MAR 5,81	MAR 4,81	*****	*****	*****	*****	*****	3.200
MAR 6,81	MAR 5,81	0.39	0.82	0.055	0.050	0.190	3.000
MAR 10,81	MAR 9,81	2.50	1.70	0.555	0.080	0.790	1.730
MAR 11,81	MAR 10,81	*****	0.95	*****	*****	*****	3.200
MAR 14,81	MAR 13,81	0.65	0.21	0.090	0.020	0.120	0.840
MAR 17,81	MAR 16,81	*****	*****	*****	*****	*****	*****
MAR 21,81	MAR 20,81	0.16	0.08	0.035	0.020	0.050	0.480
MAR 27,81	MAR 26,81	1.92	0.57	0.365	0.080	0.270	1.500
MAR 30,81	MAR 29,81	1.34	0.48	0.360	0.150	0.480	1.170
MAR 31,81	MAR 30,81	0.48	0.14	0.110	0.120	0.080	0.680
APR 1,81	MAR 31,81	*****	*****	*****	*****	*****	*****
APR 9,81	APR 8,81	4.00	1.50	0.740	0.250	1.080	1.450
APR 11,81	APR 10,81	1.47	0.28	0.245	0.140	0.250	0.550
APR 12,81	APR 11,81	1.45	0.17	0.255	0.140	0.150	0.870
APR 13,81	APR 12,81	0.30	0.08	0.050	0.050	0.060	0.314
APR 14,81	APR 13,81	0.09	0.24	0.030	0.030	0.180	0.308
APR 17,81	APR 16,81	*****	> 1.50	*****	*****	*****	6.100
APR 18,81	APR 17,81	0.40	0.08	0.080	0.110	0.050	0.970
APR 23,81	APR 22,81	0.42	0.16	0.075	0.260	0.130	1.890
APR 24,81	APR 23,81	0.30	0.09	0.050	0.010	0.030	0.510
APR 25,81	APR 24,81	*****	*****	*****	*****	*****	*****
APR 28,81	APR 27,81	0.48	0.07	0.060	< 0.010	0.020	0.720
APR 29,81	APR 28,81	0.42	0.16	0.055	0.070	0.070	0.690
DEC 1,81	NOV 30,81	0.14	< 0.01	0.020	0.210	0.100	0.106
DEC 2,81	DEC 1,81	0.22	0.14	0.025	0.030	0.030	0.400
DEC 5,81	DEC 4,81	0.53	< 0.01	0.090	< 0.010	0.030	0.450
DEC 8,81	DEC 7,81	*****	1.10	*****	*****	*****	2.100
DEC 9,81	DEC 8,81	0.60	2.20	0.135	0.920	9.500	0.540
DEC 10,81	DEC 9,81	0.13	< 0.01	0.020	0.010	0.060	0.320
DEC 14,81	DEC 13,81	*****	0.77	*****	*****	*****	*****

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : MELBOURNE/DAILY/SES #01 PAGE : 4

SAMPLE DATE	INITIAL DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
DEC 15,81	DEC 14,81	800	800	****	****	2	1.0	2	18074	2	1	103	CD	
DEC 16,81	DEC 15,81	800	800	****	****	2	1.6	2	18075	2	1	37	C	N
DEC 17,81	DEC 16,81	800	800	****	****	2	1.0	2	18076	2	1	101	C	
DEC 19,81	DEC 18,81	800	800	****	****	2	3.5	2	18077	2	1	51	C	
DEC 22,81	DEC 21,81	800	800	****	****	2	14.2	2	18078	2	1	43		N
DEC 23,81	DEC 22,81	800	800	****	****	1	24.0	2	18079	2	1	88		
JAN 1,82	DEC 31,81	800	800	****	****	1	8.0	2	18080	2	1	33		N

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : MELBOURNE/DAILY/SES #01 PAGE : 5

SAMPLE DATE	INITIAL DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ MG/L	SULPHATE MG/L	NITRATE AS N MG/L
DEC 15,81	DEC 14,81	169.	*****	*****	3.97	*****	2.95	1.33
DEC 16,81	DEC 15,81	U 98.	*****	*****	5.14	*****	1.95	0.31
DEC 17,81	DEC 16,81	166.	*****	*****	4.48	*****	0.80	0.82
DEC 19,81	DEC 18,81	295.	4.7	*****	5.92	0.044	0.45	0.09
DEC 22,81	DEC 21,81	U 1007.	12.6	*****	4.50	0.074	0.70	0.41
DEC 23,81	DEC 22,81	3488.	14.5	*****	4.40	0.074	1.15	0.17
JAN 1,82	DEC 31,81	U 443.	45.0	*****	4.15	0.148	3.30	1.08

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : MELBOURNE/DAILY/SES #01

SAMPLE DATE	INITIAL DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
DEC 15,81	DEC 14,81	0.46	0.85	0.090	0.060	0.420	0.420
DEC 16,81	DEC 15,81	0.30	0.16	0.045	0.050	0.070	0.630
DEC 17,81	DEC 16,81	0.35	0.46	0.075	0.060	0.160	0.332
DEC 19,81	DEC 18,81	0.21	0.12	0.015	0.030	0.060	0.204
DEC 22,81	DEC 21,81	0.12	0.10	0.010	0.010	0.040	0.138
DEC 23,81	DEC 22,81	0.04	0.09	0.005	0.010	0.070	0.034
JAN 1,82	DEC 31,81	0.51	0.48	0.075	0.080	0.270	0.600

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LONGWOODS/DAILY/AEROCHEM #02

SAMPLE DATE	INITIAL DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
JUL 15,80	JUL 14,80	830	830	2200	2230	1	****	*	139	2	1	****	C	
JUL 16,80	JUL 15,80	830	830	1400	1600	1	****	*	140	2	1	****		
JUL 17,80	JUL 16,80	830	830	****	****	1	****	*	141	2	1	****		
JUL 19,80	JUL 18,80	830	830	1500	1600	1	****	*	142	2	1	****	G	
JUL 21,80	JUL 19,80	830	900	****	****	1	2.6	1	143	2	1	88		
JUL 22,80	JUL 21,80	900	900	300	700	1	30.8	1	144	2	1	105	A	
JUL 23,80	JUL 22,80	830	830	900	2200	1	4.8	1	145	2	1	96		
JUL 27,80	JUL 26,80	815	815	600	730	1	6.5	1	146	2	1	****	G	
JUL 28,80	JUL 27,80	815	820	1500	820	1	9.4	1	147	2	1	99		
JUL 29,80	JUL 28,80	820	830	820	1500	1	40.4	1	148	2	1	100		J
JUL 30,80	JUL 29,80	830	830	1800	2000	1	****	*	149	2	1	****	C	
AUG 1,80	JUL 31,80	830	830	830	1130	1	6.0	1	150	2	1	98		
AUG 3,80	AUG 2,80	800	806	900	2200	1	20.0	1	151	2	1	100		
AUG 6,80	AUG 5,80	830	830	1600	1700	1	****	*	152	2	1	****		
AUG 11,80	AUG 10,80	830	830	1800	2000	1	1.8	1	153	2	1	67	C	
AUG 12,80	AUG 11,80	830	830	1400	1900	1	6.4	1	154	2	1	97	C	
AUG 15,80	AUG 14,80	830	915	1700	1830	1	1.2	1	155	2	1	59	C	
AUG 18,80	AUG 17,80	830	830	1100	2200	1	0.4	1	2169	2	1	****	FIE	
AUG 22,80	AUG 21,80	830	830	1630	1830	1	6.4	1	157	2	1	100		
SEP 1,80	AUG 31,80	800	815	500	615	1	10.2	1	158	2	1	105		
SEP 2,80	SEP 1,80	815	800	1700	1830	1	29.9	1	159	2	1	112		
SEP 3,80	SEP 2,80	800	830	800	1130	1	4.0	1	160	2	1	90		
SEP 13,80	SEP 12,80	800	950	500	940	1	23.0	1	161	2	1	99		J
SEP 14,80	SEP 13,80	950	815	****	****	1	14.4	1	162	2	1	101	B	
SEP 17,80	SEP 16,80	830	830	****	600	1	5.4	1	163	2	1	99		
SEP 18,80	SEP 17,80	830	830	830	1100	1	2.6	1	164	2	1	88		
SEP 23,80	SEP 22,80	830	830	1930	2200	1	25.8	1	165	2	1	109	C	
SEP 26,80	SEP 25,80	830	830	830	2300	1	2.0	1	166	2	1	81	C	
OCT 2,80	OCT 1,80	830	830	2300	300	1	10.4	1	167	2	1	95		
OCT 6,80	OCT 3,80	830	830	****	****	1	8.1	1	168	2	1	72	C	
OCT 7,80	OCT 6,80	830	830	1800	2300	1	2.4	1	169	2	1	94		M
OCT 12,80	OCT 11,80	800	900	1000	1300	1	7.1	1	170	2	1	90		
OCT 13,80	OCT 12,80	900	830	****	****	1	1.1	1	171	2	1	39		N
OCT 15,80	OCT 14,80	830	830	1400	300	1	12.4	1	172	2	1	103		J
OCT 16,80	OCT 15,80	830	830	2300	830	1	1.6	1	173	2	1	110		
OCT 18,80	OCT 17,80	800	800	****	****	1	10.4	1	174	2	1	92		J
OCT 21,80	OCT 20,80	830	830	2300	700	1	4.2	1	175	2	1	120		
OCT 25,80	OCT 24,80	830	900	200	900	1	8.3	1	176	2	1	99		
OCT 28,80	OCT 27,80	830	900	****	****	1	0.8	1	177	2	1	79		
NOV 5,80	NOV 4,80	830	830	830	1030	1	2.2	1	178	2	1	62		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LONGWOODS/DAILY/AEROCHEM #02

SAMPLE DATE	INITIAL DATE	VOLUME ML		CONDUCT. UMHO/CM		PH FIELD	PH LAB	TOTAL H+ MG/L	SULPHATE MG/L	NITRATE AS N MG/L
JUL 15,80	JUL 14,80	327.		47.5		*****	4.07	0.125	5.35	0.69
JUL 16,80	JUL 15,80	172.		*****		*****	4.03	*****	9.50	1.46
JUL 17,80	JUL 16,80	214.		25.9		*****	4.41	0.069	2.85	0.47
JUL 19,80	JUL 18,80	451.		*****		*****	*****	*****	*****	*****
JUL 21,80	JUL 19,80	147.		*****		*****	3.73	*****	14.00	2.40
JUL 22,80	JUL 21,80	2079.		37.3		4.32	4.08	0.119	3.25	0.55
JUL 23,80	JUL 22,80	297.		36.4		*****	4.24	0.087	4.15	0.65
JUL 27,80	JUL 26,80	*****		*****		*****	3.49	*****	> 10.00	> 2.00
JUL 28,80	JUL 27,80	599.		85.5		3.78	3.75	0.226	7.80	0.87
JUL 29,80	JUL 28,80	2612.		20.5	U	5.30	4.42	0.062	1.85	0.10
JUL 30,80	JUL 29,80	93.		*****		*****	3.93	*****	6.05	1.48
AUG 1,80	JUL 31,80	378.		42.0		3.98	4.05	0.116	4.40	0.36
AUG 3,80	AUG 2,80	1285.		*****		4.14	4.77	*****	3.30	0.55
AUG 6,80	AUG 5,80	22.		*****		*****	4.22	*****	*****	*****
AUG 11,80	AUG 10,80	78.		*****		*****	3.99	*****	> 10.00	1.32
AUG 12,80	AUG 11,80	400.		34.7		4.05	4.18	0.101	3.15	0.58
AUG 15,80	AUG 14,80	46.		*****		*****	3.85	*****	*****	*****
AUG 18,80	AUG 17,80	*****		*****		*****	*****	*****	*****	*****
AUG 22,80	AUG 21,80	411.	U	31.5		3.70	3.68	0.271	8.60	1.09
SEP 1,80	AUG 31,80	691.		36.0		4.18	4.22	0.125	3.40	0.46
SEP 2,80	SEP 1,80	2148.		27.5		4.22	4.31	0.099	2.90	0.32
SEP 3,80	SEP 2,80	232.		30.4		*****	4.08	0.101	2.95	0.44
SEP 13,80	SEP 12,80	1472.		75.0	U	4.12	3.74	0.197	8.20	0.84
SEP 14,80	SEP 13,80	937.		77.0		3.79	3.66	0.206	8.15	0.80
SEP 17,80	SEP 16,80	345.		52.0		*****	3.92	0.153	4.70	0.61
SEP 18,80	SEP 17,80	147.		*****		*****	4.28	0.080	*****	*****
SEP 23,80	SEP 22,80	1818.		17.7		4.64	4.52	0.055	1.90	0.23
SEP 26,80	SEP 25,80	105.		*****		*****	3.99	0.130	*****	1.38
OCT 2,80	OCT 1,80	635.		21.0		4.68	4.63	0.065	3.10	0.39
OCT 6,80	OCT 3,80	379.		18.0		4.65	4.70	0.051	2.65	0.51
OCT 7,80	OCT 6,80	145.		*****		*****	4.72	0.064	3.80	1.05
OCT 12,80	OCT 11,80	412.		11.4		5.40	6.06	0.040	2.15	0.16
OCT 13,80	OCT 12,80	28.	U	*****		*****	4.80	*****	1.25	0.04
OCT 15,80	OCT 14,80	824.		13.2	U	4.99	4.50	0.076	1.20	0.22
OCT 16,80	OCT 15,80	113.		*****		*****	3.65	0.255	7.45	*****
OCT 18,80	OCT 17,80	614.		27.0	U	5.56	4.24	0.087	2.65	0.37
OCT 21,80	OCT 20,80	325.		13.0		*****	4.58	0.054	1.30	0.21
OCT 25,80	OCT 24,80	531.		24.7		4.30	4.20	0.086	1.90	0.48
OCT 28,80	OCT 27,80	41.		*****		*****	4.11	*****	1.70	1.07
NOV 5,80	NOV 4,80	88.		*****		*****	4.16	*****	5.40	1.37

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LONGWOODS/DAILY/AEROCHEM #02

SAMPLE DATE	INITIAL DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
JUL 15,80	JUL 14,80	0.58	0.24	*****	0.030	0.070	0.500
JUL 16,80	JUL 15,80	1.75	0.51	0.185	0.110	0.170	1.250
JUL 17,80	JUL 16,80	0.46	0.44	*****	0.130	0.260	0.470
JUL 19,80	JUL 18,80	*****	*****	*****	*****	*****	*****
JUL 21,80	JUL 19,80	*****	0.81	*****	*****	*****	0.860
JUL 22,80	JUL 21,80	0.09	0.13	0.015	0.020	0.010	0.298
JUL 23,80	JUL 22,80	0.48	0.44	0.070	0.080	0.180	0.680
JUL 27,80	JUL 26,80	*****	0.67	*****	*****	*****	*****
JUL 28,80	JUL 27,80	0.11	0.16	0.025	0.040	0.080	0.312
JUL 29,80	JUL 28,80	0.03	0.04	0.005	0.070	0.030	0.048
JUL 30,80	JUL 29,80	*****	0.40	*****	*****	*****	*****
AUG 1,80	JUL 31,80	0.20	0.09	0.020	0.010	0.020	0.178
AUG 3,80	AUG 2,80	*****	U 2.80	*****	*****	*****	0.288
AUG 6,80	AUG 5,80	*****	*****	*****	*****	*****	*****
AUG 11,80	AUG 10,80	*****	0.70	*****	*****	*****	*****
AUG 12,80	AUG 11,80	0.23	0.22	0.035	0.020	0.060	0.322
AUG 15,80	AUG 14,80	*****	*****	*****	*****	*****	*****
AUG 18,80	AUG 17,80	*****	*****	*****	*****	*****	*****
AUG 22,80	AUG 21,80	0.62	0.34	0.100	0.010	0.080	0.198
SEP 1,80	AUG 31,80	< 0.20	0.18	< 0.050	< 0.050	0.300	0.284
SEP 2,80	SEP 1,80	< 0.20	0.12	< 0.050	< 0.050	0.300	0.332
SEP 3,80	SEP 2,80	0.24	0.13	0.030	0.020	0.020	0.170
SEP 13,80	SEP 12,80	0.40	0.18	0.060	0.020	0.020	0.520
SEP 14,80	SEP 13,80	0.24	0.20	0.030	0.020	0.020	0.480
SEP 17,80	SEP 16,80	0.17	0.13	0.015	< 0.010	< 0.010	0.292
SEP 18,80	SEP 17,80	0.13	*****	0.025	< 0.010	0.010	*****
SEP 23,80	SEP 22,80	0.20	0.09	0.050	< 0.010	0.050	0.304
SEP 26,80	SEP 25,80	*****	0.31	*****	*****	*****	0.720
OCT 2,80	OCT 1,80	0.62	0.46	0.105	0.280	0.320	0.460
OCT 6,80	OCT 3,80	0.76	0.06	0.125	0.050	0.040	0.390
OCT 7,80	OCT 6,80	1.48	0.20	0.235	0.160	0.110	1.400
OCT 12,80	OCT 11,80	0.55	0.14	0.115	0.240	0.170	0.480
OCT 13,80	OCT 12,80	*****	0.12	*****	*****	*****	*****
OCT 15,80	OCT 14,80	0.13	0.01	0.020	0.020	0.020	0.150
OCT 16,80	OCT 15,80	1.25	0.43	0.170	0.170	0.130	*****
OCT 18,80	OCT 17,80	0.25	0.31	0.055	0.030	0.180	0.198
OCT 21,80	OCT 20,80	0.16	0.02	0.030	0.020	< 0.010	0.166
OCT 25,80	OCT 24,80	0.15	0.10	0.015	0.030	0.030	0.102
OCT 28,80	OCT 27,80	*****	0.77	*****	*****	*****	*****
NOV 5,80	NOV 4,80	*****	0.51	*****	*****	*****	0.700

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LONGWOODS/DAILY/AEROCHEM #02

SAMPLE DATE	INITIAL DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
NOV 8,80	NOV 7,80	800	830	2200	2400	1	4.3	1	179	2	1	97		
NOV 9,80	NOV 8,80	830	830	****	****	1	0.8	1	180	2	1	35		N
NOV 18,80	NOV 17,80	830	830	****	****	1	****	*	181	2	1	****		
NOV 25,80	NOV 24,80	830	830	1000	830	3	4.0	1	182	2	1	56		
NOV 28,80	NOV 27,80	830	830	830	830	3	4.0	1	183	2	1	53		
DEC 2,80	NOV 28,80	830	830	****	****	3	22.8	1	184	2	1	96		
DEC 3,80	DEC 2,80	830	830	830	830	3	5.6	1	185	2	1	44		N
DEC 8,80	DEC 7,80	830	830	830	2200	1	9.4	1	186	2	1	83		
DEC 9,80	DEC 8,80	830	830	1200	1800	1	11.0	1	187	2	1	94		
DEC 10,80	DEC 9,80	830	830	1430	1900	2	2.6	1	188	2	1	39	C	N
DEC 11,80	DEC 10,80	830	830	1500	1900	2	0.6	1	189	2	1	41	C	N
DEC 12,80	DEC 11,80	830	830	****	830	2	0.8	1	190	2	1	93		
DEC 15,80	DEC 14,80	830	830	930	1200	2	0.6	1	2170	2	1	****	E	X
DEC 19,80	DEC 18,80	830	830	****	****	2	****	*	192	2	1	****		
DEC 24,80	DEC 22,80	830	830	****	****	2	5.2	1	193	2	1	64		
DEC 25,80	DEC 24,80	800	900	****	****	2	****	*	194	2	1	****		
DEC 29,80	DEC 28,80	830	830	100	830	3	5.2	1	195	2	1	43	C	N
DEC 30,80	DEC 29,80	830	830	830	1600	3	1.6	1	196	2	1	133		N
JAN 5,81	DEC 31,80	830	830	****	****	2	5.2	1	197	2	1	39		N
JAN 7,81	JAN 6,81	830	830	1400	100	2	5.4	1	198	2	1	34		N
JAN 10,81	JAN 9,81	830	830	****	****	2	0.2	1	199	2	1	7		
JAN 16,81	JAN 15,81	830	830	****	****	2	1.6	1	200	2	1	28		L
JAN 17,81	JAN 16,81	830	830	1000	1800	2	0.8	1	201	2	1	17		
APR 9,81	APR 8,81	830	800	2000	800	1	1.4	2	1689	2	1	143	CD	N
APR 11,81	APR 10,81	800	800	****	****	1	5.4	2	1691	2	1	127		N
APR 12,81	APR 11,81	800	800	****	****	1	****	*	1692	2	1	****		
APR 13,81	APR 12,81	800	830	1030	1800	1	1.1	2	1695	2	1	153	C	N
APR 14,81	APR 13,81	830	830	****	****	1	31.4	2	2315	2	1	106	CD	
MAY 10,81	MAY 9,81	800	900	****	****	1	4.0	1	17002	2	1	89		
MAY 11,81	MAY 10,81	830	830	830	2000	1	9.8	1	17003	2	1	96	C	
MAY 12,81	MAY 11,81	830	830	1800	2200	1	7.4	1	17006	2	1	71	C	
MAY 15,81	MAY 14,81	830	830	1200	500	1	6.2	1	17008	2	1	64	DC	
MAY 16,81	MAY 15,81	800	900	****	****	1	2.1	1	17010	2	1	46		N
MAY 25,81	MAY 24,81	830	900	600	900	1	4.2	1	17014	2	1	82	C	
MAY 26,81	MAY 25,81	900	930	****	****	1	1.2	1	17016	2	1	109	D	
MAY 28,81	MAY 27,81	830	830	****	****	1	5.2	1	17021	2	1	73	C	
MAY 30,81	MAY 29,81	800	830	600	830	1	3.8	1	17023	2	1	92		M
JUN 3,81	JUN 2,81	830	830	****	****	1	1.1	1	17026	2	1	95		
JUN 4,81	JUN 3,81	830	900	2100	2200	1	18.3	1	17028	2	1	103	AD	
JUN 9,81	JUN 8,81	830	830	1900	2300	1	3.8	1	17030	2	1	86	C	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LONGWOODS/DAILY/AEROCHEM #02

SAMPLE DATE	INITIAL DATE		VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ MG/L	SULPHATE MG/L	NITRATE AS N MG/L
NOV 8,80	NOV 7,80		269.	28.4	*****	4.76	0.065	4.35	1.03
NOV 9,80	NOV 8,80	U	18.	*****	*****	*****	*****	*****	*****
NOV 18,80	NOV 17,80		150.	*****	*****	4.20	*****	3.65	0.89
NOV 25,80	NOV 24,80		146.	*****	*****	4.31	*****	2.90	0.62
NOV 28,80	NOV 27,80		136.	*****	*****	3.96	*****	3.15	1.16
DEC 2,80	NOV 28,80		1410.	38.4	3.94	3.96	0.137	2.80	0.73
DEC 3,80	DEC 2,80	U	160.	*****	*****	4.76	*****	1.65	0.37
DEC 8,80	DEC 7,80		505.	30.5	4.12	4.10	0.108	2.55	0.63
DEC 9,80	DEC 8,80		667.	20.1	4.28	4.25	0.095	2.05	0.21
DEC 10,80	DEC 9,80	U	65.	*****	*****	5.57	*****	0.35	0.17
DEC 11,80	DEC 10,80	U	16.	*****	*****	5.51	*****	*****	*****
DEC 12,80	DEC 11,80		48.	*****	*****	4.96	*****	*****	*****
DEC 15,80	DEC 14,80		*****	*****	*****	*****	*****	*****	*****
DEC 19,80	DEC 18,80		31.	*****	*****	6.67	*****	*****	*****
DEC 24,80	DEC 22,80		214.	19.0	*****	4.56	*****	0.90	0.82
DEC 25,80	DEC 24,80		29.	*****	*****	6.53	*****	*****	*****
DEC 29,80	DEC 28,80	U	145.	8.2	*****	4.76	*****	0.90	0.08
DEC 30,80	DEC 29,80		137.	12.3	*****	4.89	*****	1.50	0.22
JAN 5,81	DEC 31,80	U	133.	17.2	*****	4.50	*****	0.55	0.50
JAN 7,81	JAN 6,81	U	119.	19.5	*****.	4.44	*****	0.70	0.56
JAN 10,81	JAN 9,81		1.	*****	*****	*****	*****	*****	*****
JAN 16,81	JAN 15,81		29.	*****	*****	3.85	*****	3.05	2.20
JAN 17,81	JAN 16,81		9.	*****	*****	*****	*****	*****	*****
APR 9,81	APR 8,81		129.	*****	*****	5.70	*****	7.55	1.10
APR 11,81	APR 10,81		443.	22.6	4.35	4.38	0.071	2.45	0.37
APR 12,81	APR 11,81		62.	*****	*****	5.66	*****	*****	*****
APR 13,81	APR 12,81		108.	*****	*****	4.42	*****	6.30	0.59
APR 14,81	APR 13,81		2153.	42.0	4.06	4.03	0.124	3.85	0.57
MAY 10,81	MAY 9,81		230.	*****	*****	3.65	*****	12.50	1.46
MAY 11,81	MAY 10,81		605.	40.5	3.98	4.03	0.130	4.70	0.61
MAY 12,81	MAY 11,81		341.	18.8	*****	4.46	0.062	2.00	0.22
MAY 15,81	MAY 14,81		256.	30.2	*****	4.46	0.065	4.30	0.69
MAY 16,81	MAY 15,81	U	63.	*****	*****	3.68	*****	12.10	2.00
MAY 25,81	MAY 24,81		222.	*****	*****	4.42	*****	2.40	0.28
MAY 26,81	MAY 25,81		84.	*****	*****	4.09	*****	5.20	0.61
MAY 28,81	MAY 27,81		245.	48.4	*****	4.06	0.126	4.30	1.24
MAY 30,81	MAY 29,81		226.	*****	*****	4.65	*****	2.10	0.16
JUN 3,81	JUN 2,81		67.	*****	*****	3.94	*****	4.65	1.04
JUN 4,81	JUN 3,81		1213.	34.1	*****	4.18	0.094	3.65	0.51
JUN 9,81	JUN 8,81		210.	*****	*****	4.37	*****	3.25	0.40

ONTARIO MINISTRY OF THE ENVIRONMENT
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STATION NAME : LONGWOODS/DAILY/AEROCHEM #02

SAMPLE DATE	INITIAL DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
NOV 8,80	NOV 7,80	1.27	0.20	0.160	0.100	0.040	1.110
NOV 9,80	NOV 8,80	*****	*****	*****	*****	*****	*****
NOV 18,80	NOV 17,80	0.99	0.20	0.140	0.070	0.070	0.380
NOV 25,80	NOV 24,80	0.60	0.20	0.080	0.160	0.130	0.370
NOV 28,80	NOV 27,80	0.50	0.27	0.080	0.050	0.070	0.288
DEC 2,80	NOV 28,80	0.15	0.17	0.025	0.030	0.080	0.410
DEC 3,80	DEC 2,80	0.47	0.10	0.080	0.040	0.060	0.268
DEC 8,80	DEC 7,80	0.20	0.18	0.030	0.030	0.100	0.450
DEC 9,80	DEC 8,80	0.05	0.21	0.025	0.010	0.090	0.238
DEC 10,80	DEC 9,80	0.28	0.11	0.030	0.020	0.030	0.054
DEC 11,80	DEC 10,80	*****	*****	*****	*****	*****	*****
DEC 12,80	DEC 11,80	*****	*****	*****	*****	*****	*****
DEC 15,80	DEC 14,80	*****	*****	*****	*****	*****	*****
DEC 19,80	DEC 18,80	*****	*****	*****	*****	*****	*****
DEC 24,80	DEC 22,80	0.89	0.46	0.135	0.050	0.140	0.086
DEC 25,80	DEC 24,80	*****	*****	*****	*****	*****	*****
DEC 29,80	DEC 28,80	0.17	0.08	0.020	0.020	0.070	0.006
DEC 30,80	DEC 29,80	0.51	0.32	0.060	0.290	0.230	0.132
JAN 5,81	DEC 31,80	0.22	0.25	0.025	0.020	0.090	0.058
JAN 7,81	JAN 6,81	0.26	0.19	0.025	0.010	0.080	0.036
JAN 10,81	JAN 9,81	*****	*****	*****	*****	*****	*****
JAN 16,81	JAN 15,81	*****	0.85	*****	*****	*****	*****
JAN 17,81	JAN 16,81	*****	*****	*****	*****	*****	*****
APR 9,81	APR 8,81	*****	0.88	*****	*****	*****	1.050
APR 11,81	APR 10,81	0.22	0.14	0.040	0.040	0.090	0.292
APR 12,81	APR 11,81	*****	*****	*****	*****	*****	0.500
APR 13,81	APR 12,81	*****	0.36	*****	*****	*****	0.620
APR 14,81	APR 13,81	0.10	0.27	0.025	0.040	0.170	0.346
MAY 10,81	MAY 9,81	1.24	0.39	0.205	0.100	0.130	0.620
MAY 11,81	MAY 10,81	0.26	0.18	0.045	0.030	0.100	0.410
MAY 12,81	MAY 11,81	0.08	0.25	< 0.005	0.020	0.320	0.282
MAY 15,81	MAY 14,81	*****	0.36	*****	*****	*****	0.540
MAY 16,81	MAY 15,81	*****	1.70	*****	*****	*****	1.410
MAY 25,81	MAY 24,81	0.14	0.26	0.020	0.050	0.340	0.286
MAY 26,81	MAY 25,81	*****	0.20	*****	*****	*****	*****
MAY 28,81	MAY 27,81	0.38	0.34	0.045	0.040	0.270	0.860
MAY 30,81	MAY 29,81	0.21	0.25	0.020	0.170	0.190	U 0.0
JUN 3,81	JUN 2,81	*****	0.34	*****	*****	*****	*****
JUN 4,81	JUN 3,81	0.18	0.18	0.035	0.020	0.070	0.650
JUN 9,81	JUN 8,81	0.43	0.16	0.085	0.030	0.050	0.390

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STATION NAME : LONGWOODS/DAILY/AEROCHEM #02

SAMPLE DATE	INITIAL DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
JUN 11,81	JUN 10,81	830	830	800	1230	1	0.8	1	17032	2	1	27	CE	
JUN 14,81	JUN 13,81	830	900	1700	1900	1	13.2	1	17034	2	1	101		
JUN 15,81	JUN 14,81	830	830	1200	1700	1	14.4	1	17036	2	1	109	C	
JUN 17,81	JUN 16,81	830	830	1500	1900	1	4.1	1	17038	2	1	98	C	
JUN 20,81	JUN 19,81	800	800	1800	1900	1	2.1	1	17040	2	1	84		
JUN 21,81	JUN 20,81	830	830	230	400	1	4.1	1	17042	2	1	95		
JUN 22,81	JUN 21,81	830	830	2330	600	1	18.4	1	17044	2	1	103	C	
JUN 25,81	JUN 24,81	830	830	****	****	1	1.0	1	17047	2	1	****	E	
JUL 1,81	JUN 30,81	830	830	400	700	1	22.9	1	17049	2	1	107	A	
JUL 5,81	JUL 4,81	800	800	1400	1500	1	4.0	1	17051	2	1	63		
JUL 6,81	JUL 5,81	830	830	1400	1600	1	18.8	1	17053	2	1	101	C	
JUL 10,81	JUL 9,81	830	830	1330	1430	1	5.2	1	17059	2	1	92	C	
JUL 18,81	JUL 17,81	800	800	2230	2330	1	6.7	1	17062	2	1	97	A	
JUL 20,81	JUL 18,81	830	830	2000	830	1	11.8	1	17065	2	1	89	C	
JUL 21,81	JUL 20,81	830	830	830	1200	1	0.8	1	17068	2	1	48	C	
JUL 27,81	JUL 26,81	830	830	1300	1700	1	1.2	1	17071	2	1	45	C	
JUL 28,81	JUL 27,81	800	900	****	****	1	18.2	1	17072	2	1	101		
JUL 29,81	JUL 28,81	830	830	830	1800	1	18.2	1	17073	2	1	34	C	N
AUG 4,81	AUG 3,81	830	830	1800	2000	1	16.6	1	17074	2	1	96	C	
AUG 5,81	AUG 4,81	830	830	1800	2000	1	27.4	1	17079	2	1	112	C	
AUG 8,81	AUG 7,81	800	830	900	1100	1	9.8	1	17087	2	1	94	A	
AUG 9,81	AUG 8,81	830	830	1100	1200	1	3.0	1	17088	2	1	84		
AUG 12,81	AUG 11,81	830	830	1900	2000	1	12.2	1	17089	2	1	93	BD	
AUG 14,81	AUG 13,81	800	830	2030	2100	1	6.0	1	17090	2	1	93	J	
AUG 15,81	AUG 14,81	830	830	****	****	1	16.4	1	17091	2	1	105		
AUG 16,81	AUG 15,81	830	830	1100	1200	1	3.2	1	17092	2	1	79	A	
SEP 9,81	SEP 8,81	830	830	****	****	1	3.0	1	17093	2	1	40	C	N
SEP 17,81	SEP 16,81	800	900	1700	1900	1	22.8	1	17095	2	1	105	A	
SEP 18,81	SEP 17,81	800	900	1500	1600	1	7.8	1	17096	2	1	91		
SEP 22,81	SEP 21,81	830	830	1200	2400	1	23.4	1	17097	2	1	97		
SEP 27,81	SEP 25,81	800	800	****	****	1	2.7	1	17101	2	1	92	C	
OCT 1,81	SEP 30,81	830	830	2100	1000	1	53.0	1	17102	2	1	99	C	
OCT 2,81	OCT 1,81	830	830	1000	830	1	4.4	1	17103	2	1	90	C	
OCT 3,81	OCT 2,81	830	830	****	****	3	3.1	1	17104	2	1	81	D	
OCT 5,81	OCT 4,81	830	830	****	****	1	0.6	1	17105	2	1	****	E	
OCT 6,81	OCT 5,81	830	830	****	****	1	5.0	1	17106	2	1	94	C	
OCT 7,81	OCT 6,81	830	830	****	****	1	3.2	1	17113	2	1	79	BC	
OCT 8,81	OCT 7,81	830	830	2200	430	1	3.6	1	17114	2	1	76	C	M
OCT 18,81	OCT 17,81	800	2000	****	****	1	18.5	1	17115	2	1	97		
OCT 19,81	OCT 18,81	2000	830	2000	830	1	3.4	1	17116	2	1	94	C	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LONGWOODS/DAILY/AEROCHEM #02

SAMPLE DATE	INITIAL DATE		VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ MG/L	SULPHATE MG/L	NITRATE AS N MG/L
JUN 11,81	JUN 10,81		14.	*****	*****	*****	*****	*****	*****
JUN 14,81	JUN 13,81		855.	*****	*****	4.02	*****	4.70	0.57
JUN 15,81	JUN 14,81		1010.	*****	*****	4.80	*****	1.30	0.12
JUN 17,81	JUN 16,81		259.	38.2	*****	4.22	0.096	5.05	0.80
JUN 20,81	JUN 19,81		114.	*****	*****	4.17	*****	8.60	1.44
JUN 21,81	JUN 20,81		250.	*****	*****	3.73	*****	10.70	1.28
JUN 22,81	JUN 21,81		1220.	24.7	*****	4.30	0.077	2.10	0.34
JUN 25,81	JUN 24,81		*****	*****	*****	*****	*****	*****	*****
JUL 1,81	JUN 30,81		1578.	26.1	*****	4.29	0.077	2.85	0.25
JUL 5,81	JUL 4,81		162.	*****	*****	3.75	*****	8.55	1.12
JUL 6,81	JUL 5,81		1229.	36.0	*****	4.18	0.097	4.65	0.43
JUL 10,81	JUL 9,81		309.	31.0	*****	6.94	0.031	5.45	0.96
JUL 18,81	JUL 17,81		420.	64.0	*****	3.88	0.169	6.45	1.17
JUL 20,81	JUL 18,81		677.	59.0	*****	3.93	0.152	6.35	0.59
JUL 21,81	JUL 20,81		25.	*****	*****	3.48	*****	*****	*****
JUL 27,81	JUL 26,81		35.	*****	*****	3.23	*****	*****	*****
JUL 28,81	JUL 27,81		1182.	24.0	*****	4.37	0.071	2.20	0.25
JUL 29,81	JUL 28,81	U	405.	85.5	*****	3.73	0.219	7.90	1.01
AUG 4,81	AUG 3,81		1027.	104.0	*****	3.72	0.244	12.00	1.00
AUG 5,81	AUG 4,81		1983.	20.1	*****	4.48	0.064	2.65	0.24
AUG 8,81	AUG 7,81		595.	42.0	*****	4.12	0.109	3.80	0.58
AUG 9,81	AUG 8,81		163.	*****	*****	3.79	*****	7.35	1.01
AUG 12,81	AUG 11,81		730.	51.0	*****	4.08	0.127	5.00	0.82
AUG 14,81	AUG 13,81		360.	14.5	*****	6.03	*****	2.25	0.42
AUG 15,81	AUG 14,81		1111.	54.0	*****	3.98	0.146	4.75	0.65
AUG 16,81	AUG 15,81		163.	*****	*****	3.76	*****	10.20	1.08
SEP 9,81	SEP 8,81	U	78.	*****	*****	7.12	*****	5.15	0.46
SEP 17,81	SEP 16,81		1536.	13.0	4.11	4.88	0.040	1.50	0.20
SEP 18,81	SEP 17,81		459.	29.8	3.97	4.19	0.095	2.25	0.45
SEP 22,81	SEP 21,81		1463.	50.0	U 4.65	4.12	0.117	5.30	1.01
SEP 27,81	SEP 25,81		160.	*****	*****	5.84	*****	9.85	1.69
OCT 1,81	SEP 30,81		3386.	21.5	4.22	4.34	0.075	2.15	0.21
OCT 2,81	OCT 1,81		256.	*****	*****	4.73	0.046	1.55	0.13
OCT 3,81	OCT 2,81		162.	*****	*****	6.18	*****	0.85	0.03
OCT 5,81	OCT 4,81		*****	*****	*****	*****	*****	*****	*****
OCT 6,81	OCT 5,81		302.	*****	*****	4.18	0.098	3.10	0.70
OCT 7,81	OCT 6,81		163.	*****	*****	5.04	*****	2.05	0.10
OCT 8,81	OCT 7,81		176.	*****	*****	6.62	*****	1.30	1.40
OCT 18,81	OCT 17,81		1161.	25.5	4.27	4.25	0.078	2.45	0.41
OCT 19,81	OCT 18,81		207.	*****	*****	5.61	0.032	1.15	0.13

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LONGWOODS/DAILY/AEROCHEM #02

SAMPLE DATE	INITIAL DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
JUN 11,81	JUN 10,81	*****	*****	*****	*****	*****	*****
JUN 14,81	JUN 13,81	0.32	0.26	0.060	0.040	0.120	0.380
JUN 15,81	JUN 14,81	0.10	0.16	0.010	0.020	0.120	0.152
JUN 17,81	JUN 16,81	0.66	0.31	0.130	0.060	0.120	0.970
JUN 20,81	JUN 19,81	1.73	0.55	0.295	0.180	0.450	1.840
JUN 21,81	JUN 20,81	0.46	0.18	0.100	0.070	0.050	1.410
JUN 22,81	JUN 21,81	0.12	0.06	0.010	< 0.010	0.020	0.242
JUN 25,81	JUN 24,81	*****	*****	*****	*****	*****	*****
JUL 1,81	JUN 30,81	0.09	0.09	0.025	0.050	0.090	0.362
JUL 5,81	JUL 4,81	0.72	0.21	0.110	0.040	0.040	0.670
JUL 6,81	JUL 5,81	0.17	0.08	0.040	0.020	0.020	0.810
JUL 10,81	JUL 9,81	1.89	0.34	0.365	0.090	0.140	1.200
JUL 18,81	JUL 17,81	0.96	0.45	0.165	0.100	0.210	0.540
JUL 20,81	JUL 18,81	0.14	0.11	0.025	0.020	0.010	0.640
JUL 21,81	JUL 20,81	*****	*****	*****	*****	*****	*****
JUL 27,81	JUL 26,81	*****	*****	*****	*****	*****	*****
JUL 28,81	JUL 27,81	0.10	0.12	0.015	0.050	0.070	0.144
JUL 29,81	JUL 28,81	0.21	0.28	0.035	0.030	0.040	0.750
AUG 4,81	AUG 3,81	0.49	0.30	0.085	0.050	0.100	1.170
AUG 5,81	AUG 4,81	0.23	0.11	0.050	0.040	0.050	0.400
AUG 8,81	AUG 7,81	0.24	0.30	0.045	0.040	0.180	0.268
AUG 9,81	AUG 8,81	0.38	0.24	0.070	0.030	0.030	0.520
AUG 12,81	AUG 11,81	0.43	0.22	0.090	0.040	0.020	0.720
AUG 14,81	AUG 13,81	0.74	0.20	0.125	0.130	0.080	0.640
AUG 15,81	AUG 14,81	0.23	0.14	0.030	0.020	0.020	0.258
AUG 16,81	AUG 15,81	0.23	0.23	0.030	0.050	0.030	1.270
SEP 9,81	SEP 8,81	*****	0.68	*****	*****	*****	0.800
SEP 17,81	SEP 16,81	0.37	0.07	0.070	0.050	0.050	0.170
SEP 18,81	SEP 17,81	0.08	0.08	0.025	0.020	0.010	0.230
SEP 22,81	SEP 21,81	0.88	0.18	0.130	0.060	0.040	0.800
SEP 27,81	SEP 25,81	*****	0.47	*****	*****	*****	0.730
OCT 1,81	SEP 30,81	0.14	0.03	0.015	0.010	0.020	0.144
OCT 2,81	OCT 1,81	0.14	0.12	0.020	0.030	0.080	0.164
OCT 3,81	OCT 2,81	0.30	0.16	0.055	0.020	0.080	0.200
OCT 5,81	OCT 4,81	*****	*****	*****	*****	*****	*****
OCT 6,81	OCT 5,81	0.32	0.29	0.045	0.100	0.200	0.480
OCT 7,81	OCT 6,81	0.54	0.05	0.070	0.060	0.110	0.150
OCT 8,81	OCT 7,81	0.64	1.16	0.120	0.590	0.730	0.304
OCT 18,81	OCT 17,81	0.36	0.18	0.050	0.080	0.070	0.264
OCT 19,81	OCT 18,81	0.22	0.21	0.040	0.150	0.140	0.318

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LONGWOODS/DAILY/AEROCHEM #02 PAGE : 10

SAMPLE DATE	INITIAL DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
OCT 22,81	OCT 21,81	730	830	745	500	1	8.8	1	17121	2	1	94	C	
OCT 23,81	OCT 22,81	830	830	1045	130	1	16.8	1	17122	2	1	101	C	
OCT 27,81	OCT 26,81	830	930	****	****	1	9.2	1	17123	2	1	93		
OCT 28,81	OCT 27,81	930	830	****	****	1	2.6	1	17128	2	1	79	C	
NOV 6,81	NOV 5,81	800	830	840	830	1	12.6	1	17129	2	1	94	C	
NOV 7,81	NOV 6,81	830	900	830	1200	3	6.0	1	17130	2	1	84	C	
NOV 17,81	NOV 16,81	830	830	1330	1900	1	0.4	1	17131	2	1	11	E	
NOV 19,81	NOV 18,81	830	900	1030	900	1	1.2	1	17132	2	1	31	C	
NOV 20,81	NOV 19,81	900	815	1130	1500	1	14.4	1	17133	2	1	95	C	
NOV 21,81	NOV 20,81	800	800	****	****	3	6.0	1	17134	2	1	226		N

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LONGWOODS/DAILY/AEROCHEM #02

SAMPLE DATE	INITIAL DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ MG/L	SULPHATE MG/L	NITRATE AS N MG/L
OCT 22,81	OCT 21,81	533.	57.5	3.97	3.96	0.140	4.60	1.34
OCT 23,81	OCT 22,81	1097.	16.4	4.50	4.50	0.058	1.10	0.18
OCT 27,81	OCT 26,81	552.	41.9	4.06	4.04	0.122	3.30	0.60
OCT 28,81	OCT 27,81	132.	*****	*****	4.30	*****	3.55	0.45
NOV 6,81	NOV 5,81	766.	19.0	4.61	4.52	0.076	1.80	0.50
NOV 7,81	NOV 6,81	326.	3.9	*****	5.52	0.027	0.50	0.02
NOV 17,81	NOV 16,81	3.	*****	*****	*****	*****	*****	*****
NOV 19,81	NOV 18,81	24.	*****	*****	7.59	*****	*****	*****
NOV 20,81	NOV 19,81	878.	39.2	4.13	4.13	0.122	3.05	0.78
NOV 21,81	NOV 20,81	871.	9.2	4.91	4.86	0.046	0.60	0.18

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LONGWOODS/DAILY/AEROCHEM #02

SAMPLE DATE	INITIAL DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
OCT 22,81	OCT 21,81	0.68	0.22	0.095	0.070	0.060	0.890
OCT 23,81	OCT 22,81	0.06	0.06	0.020	0.010	0.020	0.092
OCT 27,81	OCT 26,81	0.20	0.22	0.045	0.030	0.050	0.270
OCT 28,81	OCT 27,81	0.31	0.14	0.040	0.040	0.090	0.690
NOV 6,81	NOV 5,81	0.44	0.15	0.075	0.030	0.050	0.360
NOV 7,81	NOV 6,81	0.11	0.02	0.015	0.020	0.040	0.096
NOV 17,81	NOV 16,81	*****	*****	*****	*****	*****	*****
NOV 19,81	NOV 18,81	*****	*****	*****	*****	*****	*****
NOV 20,81	NOV 19,81	0.24	0.12	0.025	0.030	0.040	0.540
NOV 21,81	NOV 20,81	0.10	0.03	< 0.005	0.020	0.060	0.116

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LONGWOODS/DAILY/SES #02 PAGE : 1

SAMPLE DATE	INITIAL DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
JAN 28,81	JAN 27,81	830	830	1000	1800	2	1.6	1	202	2	1	95		
JAN 29,81	JAN 28,81	830	830	1900	200	2	****	*	203	2	1	****		L
JAN 30,81	JAN 29,81	830	830	****	****	2	****	*	204	2	1	****	C	
FEB 1,81	JAN 31,81	800	830	400	830	1	****	*	205	2	1	****		J
FEB 2,81	FEB 1,81	830	830	830	2400	3	12.6	1	206	2	1	52		
FEB 3,81	FEB 2,81	830	830	1300	1400	2	****	*	207	2	1	****		L
FEB 6,81	FEB 5,81	830	830	2300	830	2	2.0	1	208	2	1	98	C	L
FEB 11,81	FEB 10,81	830	830	900	830	3	****	*	209	2	1	****		
FEB 12,81	FEB 11,81	830	830	830	2000	2	****	*	210	2	1	****	C	
FEB 17,81	FEB 16,81	830	830	930	1800	1	****	*	1651	2	1	****	C	
FEB 19,81	FEB 18,81	830	830	830	830	1	****	*	1653	2	1	****	C	
FEB 23,81	FEB 22,81	830	830	2030	830	1	17.8	2	1656	2	1	102	C	
FEB 25,81	FEB 24,81	830	830	1830	****	3	1.2	2	1658	2	1	154	C	N
FEB 28,81	FEB 27,81	800	900	****	****	1	****	*	1660	2	1	****	C	
MAR 3,81	MAR 2,81	830	830	****	****	2	0.6	2	2471	2	1	31	CE	
MAR 5,81	MAR 4,81	900	1300	****	****	3	0.7	2	1663	2	1	81		
MAR 6,81	MAR 5,81	1300	830	****	****	2	0.8	2	1665	2	1	89	C	
MAR 10,81	MAR 9,81	830	830	****	****	3	2.1	2	1667	2	1	84	C	
MAR 11,81	MAR 10,81	830	830	****	****	2	1.8	2	1669	2	1	72	C	
MAR 14,81	MAR 13,81	800	900	2000	900	2	3.4	2	1671	2	1	65	C	
MAR 17,81	MAR 16,81	830	830	2300	830	2	2.6	2	1673	2	1	48	C	MNEC
MAR 18,81	MAR 17,81	830	830	830	830	2	0.8	2	1675	2	1	25	BC	E
MAR 19,81	MAR 18,81	830	830	****	****	2	2.5	2	1676	2	1	46	C	MNE
MAR 21,81	MAR 20,81	800	800	****	****	2	4.3	2	1678	2	1	65	C	
MAR 27,81	MAR 26,81	800	900	****	****	1	5.8	2	1680	2	1	114		
MAR 30,81	MAR 29,81	830	830	1800	600	1	2.4	2	1682	2	1	48	ACG	N
MAR 31,81	MAR 30,81	830	845	****	****	1	3.2	2	1684	2	1	132		N
APR 5,81	APR 4,81	800	900	****	****	1	****	*	1686	2	1	****	C	
APR 9,81	APR 8,81	830	830	2000	800	1	1.4	2	1690	2	1	150		NEC
APR 11,81	APR 10,81	800	800	****	****	1	5.6	2	2318	2	1	102	C	M
APR 12,81	APR 11,81	800	800	****	****	1	****	*	1693	2	1	****	C	
APR 13,81	APR 12,81	800	830	1030	1800	1	1.1	2	1696	2	1	155		N
APR 14,81	APR 13,81	830	830	****	****	1	31.4	2	2319	2	1	64	CD	
APR 17,81	APR 16,81	800	900	****	****	1	9.6	2	2000	2	1	109	C	
APR 18,81	APR 17,81	900	900	****	****	1	14.2	2	2001	2	1	107	C	
APR 23,81	APR 22,81	830	830	****	****	1	26.3	2	2002	2	1	99	C	
APR 24,81	APR 23,81	830	930	830	930	1	7.2	2	2003	2	1	110		
APR 28,81	APR 27,81	830	830	****	****	1	19.8	1	2004	2	1	94	CGL	
APR 29,81	APR 28,81	830	830	830	2000	1	8.0	1	2005	2	1	98	C	
MAY 10,81	MAY 9,81	800	900	****	****	1	4.0	1	17001	2	1	84	ABC	EC

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LONGWOODS/DAILY/SES #02

SAMPLE DATE	INITIAL DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ MG/L	SULPHATE MG/L	NITRATE AS N MG/L
JAN 28,81	JAN 27,81	251.	47.5	*****	5.55	0.053	7.90	1.68
JAN 29,81	JAN 28,81	139.	52.0	*****	3.97	*****	2.60	2.10
JAN 30,81	JAN 29,81	23.	*****	*****	7.42	*****	*****	*****
FEB 1,81	JAN 31,81	530.	21.3	U 3.66	4.68	0.073	3.15	0.48
FEB 2,81	FEB 1,81	1091.	25.0	4.03	4.31	0.078	1.90	0.43
FEB 3,81	FEB 2,81	88.	*****	*****	4.21	*****	1.60	0.98
FEB 6,81	FEB 5,81	322.	41.2	*****	4.13	0.108	1.35	1.47
FEB 11,81	FEB 10,81	4106.	30.0	4.06	4.17	0.092	2.10	0.50
FEB 12,81	FEB 11,81	109.	17.6	*****	4.52	*****	0.90	0.47
FEB 17,81	FEB 16,81	403.	81.0	3.91	4.30	0.115	9.25	1.72
FEB 19,81	FEB 18,81	93.	*****	*****	3.39	*****	23.00	5.60
FEB 23,81	FEB 22,81	2982.	28.9	4.16	4.36	0.082	2.50	0.44
FEB 25,81	FEB 24,81	303.	22.8	*****	4.74	0.048	2.90	0.51
FEB 28,81	FEB 27,81	745.	53.0	3.91	4.16	0.121	8.00	1.03
MAR 3,81	MAR 2,81	31.	*****	*****	*****	*****	*****	*****
MAR 5,81	MAR 4,81	93.	*****	*****	7.66	*****	7.86	1.31
MAR 6,81	MAR 5,81	117.	*****	*****	3.78	*****	8.55	3.60
MAR 10,81	MAR 9,81	291.	58.5	*****	7.09	0.037	7.50	2.70
MAR 11,81	MAR 10,81	213.	*****	*****	7.41	*****	4.80	1.62
MAR 14,81	MAR 13,81	365.	24.9	6.79	7.23	0.029	2.45	0.32
MAR 17,81	MAR 16,81	U 207.	*****	*****	7.61	0.028	2.10	0.81
MAR 18,81	MAR 17,81	33.	*****	*****	U 7.87	*****	*****	*****
MAR 19,81	MAR 18,81	U 191.	*****	*****	U 7.63	*****	2.80	0.23
MAR 21,81	MAR 20,81	461.	21.4	4.55	4.58	0.056	2.55	0.36
MAR 27,81	MAR 26,81	1084.	39.9	4.48	4.55	0.077	6.40	1.78
MAR 30,81	MAR 29,81	U 190.	*****	*****	5.55	*****	9.55	1.16
MAR 31,81	MAR 30,81	694.	13.2	4.76	4.81	0.045	1.80	0.24
APR 5,81	APR 4,81	63.	*****	*****	7.70	*****	*****	*****
APR 9,81	APR 8,81	345.	116.0	*****	7.73	0.044	9.75	0.96
APR 11,81	APR 10,81	945.	22.9	6.56	7.01	0.030	2.70	0.59
APR 12,81	APR 11,81	111.	*****	*****	6.93	*****	6.60	0.50
APR 13,81	APR 12,81	280.	23.7	*****	4.46	0.074	5.45	0.41
APR 14,81	APR 13,81	3325.	43.5	4.05	4.03	0.124	3.85	0.56
APR 17,81	APR 16,81	1722.	36.5	4.49	4.91	0.050	7.00	1.07
APR 18,81	APR 17,81	2495.	17.8	4.73	5.16	0.044	2.90	0.57
APR 23,81	APR 22,81	4293.	16.7	5.52	6.45	0.028	3.70	0.44
APR 24,81	APR 23,81	1301.	34.6	4.21	4.26	0.096	3.45	0.77
APR 28,81	APR 27,81	3073.	24.8	4.80	5.77	0.037	4.80	0.83
APR 29,81	APR 28,81	1294.	48.0	4.00	4.10	0.124	4.55	0.82
MAY 10,81	MAY 9,81	556.	117.0	7.12	7.54	0.035	19.80	2.05

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LONGWOODS/DAILY/SES #02 PAGE : 3

SAMPLE DATE	INITIAL DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
JAN 28,81	JAN 27,81	2.10	1.40	0.415	0.260	0.670	2.300
JAN 29,81	JAN 28,81	1.03	1.49	0.155	0.040	0.570	0.730
JAN 30,81	JAN 29,81	*****	*****	*****	*****	*****	*****
FEB 1,81	JAN 31,81	0.90	0.28	0.165	0.070	0.250	0.320
FEB 2,81	FEB 1,81	0.11	0.18	0.020	0.080	0.070	0.260
FEB 3,81	FEB 2,81	0.53	0.88	0.120	0.040	0.100	0.280
FEB 6,81	FEB 5,81	0.86	0.56	0.145	0.040	0.230	0.214
FEB 11,81	FEB 10,81	0.11	0.19	0.020	0.020	0.070	0.202
FEB 12,81	FEB 11,81	0.63	0.36	0.140	0.070	0.130	0.046
FEB 17,81	FEB 16,81	1.40	2.35	0.230	1.060	2.100	1.850
FEB 19,81	FEB 18,81	*****	2.00	*****	*****	*****	4.400
FEB 23,81	FEB 22,81	0.23	0.10	0.030	0.020	0.040	0.278
FEB 25,81	FEB 24,81	0.55	0.18	0.130	0.040	0.050	0.530
FEB 28,81	FEB 27,81	1.82	0.65	0.310	0.110	0.320	0.750
MAR 3,81	MAR 2,81	*****	*****	*****	*****	*****	*****
MAR 5,81	MAR 4,81	*****	1.08	*****	*****	*****	0.700
MAR 6,81	MAR 5,81	1.26	1.21	0.200	0.180	0.300	2.650
MAR 10,81	MAR 9,81	3.45	1.18	0.510	0.150	0.610	2.250
MAR 11,81	MAR 10,81	4.25	0.82	0.280	0.210	0.230	1.360
MAR 14,81	MAR 13,81	2.10	0.52	0.325	0.130	0.300	0.346
MAR 17,81	MAR 16,81	9.00	0.82	1.350	0.180	0.430	0.480
MAR 18,81	MAR 17,81	*****	*****	*****	*****	*****	*****
MAR 19,81	MAR 18,81	U 7.00	0.70	0.700	0.110	0.430	0.490
MAR 21,81	MAR 20,81	0.61	0.20	0.115	0.040	0.130	0.190
MAR 27,81	MAR 26,81	2.10	0.60	0.345	0.250	0.290	1.300
MAR 30,81	MAR 29,81	2.50	0.52	0.660	0.220	0.400	1.490
MAR 31,81	MAR 30,81	0.34	0.08	0.075	0.030	0.040	0.346
APR 5,81	APR 4,81	*****	*****	*****	*****	*****	*****
APR 9,81	APR 8,81	19.90	1.50	2.120	0.720	0.820	0.760
APR 11,81	APR 10,81	2.65	0.26	0.470	0.100	0.120	0.480
APR 12,81	APR 11,81	*****	0.24	*****	*****	*****	0.510
APR 13,81	APR 12,81	1.25	0.17	0.190	0.090	0.080	0.440
APR 14,81	APR 13,81	0.30	0.25	0.050	0.020	0.190	0.346
APR 17,81	APR 16,81	2.75	0.42	0.550	0.030	0.230	0.690
APR 18,81	APR 17,81	0.41	0.09	0.085	0.050	0.070	1.000
APR 23,81	APR 22,81	1.79	0.10	0.365	0.030	0.050	0.216
APR 24,81	APR 23,81	0.35	0.28	0.065	0.110	0.100	0.660
APR 28,81	APR 27,81	1.67	0.20	0.335	0.030	0.050	0.830
APR 29,81	APR 28,81	0.39	0.28	0.050	0.130	0.170	0.560
MAY 10,81	MAY 9,81	18.50	0.97	1.800	0.810	0.180	0.880

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LONGWOODS/DAILY/SES #02

SAMPLE DATE	INITIAL DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
MAY 12,81	MAY 11,81	830	830	1800	2200	1	7.4	1	17005	2	1	97	C	
MAY 15,81	MAY 14,81	830	830	1200	500	1	6.2	1	17012	2	1	91		
MAY 16,81	MAY 15,81	800	900	****	****	1	2.1	1	17013	2	1	84		F
MAY 25,81	MAY 24,81	830	900	600	900	1	4.2	1	17019	2	1	95	BCD	EC
MAY 26,81	MAY 25,81	900	930	****	****	1	1.2	1	17017	2	1	89	AD	
MAY 28,81	MAY 27,81	830	830	****	****	1	5.2	1	17020	2	1	90	AC	
MAY 30,81	MAY 29,81	800	830	600	830	1	3.8	1	17025	2	1	93		
NOV 27,81	NOV 26,81	830	830	1800	2400	1	****	*	17141	2	1	****	C	
DEC 2,81	DEC 1,81	830	830	1900	2200	1	7.2	2	17144	2	1	113	C	
DEC 2,81	DEC 1,81	830	830	****	****	3	****	*	17145	2	1	****	E	
DEC 6,81	DEC 5,81	800	800	1100	1400	2	****	*	17146	2	1	****		
DEC 8,81	DEC 7,81	830	830	2330	830	3	6.8	2	17147	2	1	39	C	N
DEC 9,81	DEC 8,81	830	700	1800	830	2	2.4	2	17151	2	1	60	CD	
DEC 10,81	DEC 9,81	830	830	****	****	2	5.6	2	17153	2	1	68	C	M
DEC 11,81	DEC 10,81	830	830	****	****	2	****	2	17155	2	1	****	C	
DEC 15,81	DEC 14,81	830	1000	1000	1400	2	0.8	2	17156	2	1	109	C	
DEC 16,81	DEC 15,81	1000	830	1830	1930	2	0.2	2	17157	2	1	140	D	
DEC 17,81	DEC 16,81	830	830	830	1200	2	0.4	2	17158	2	1	216	D	N
DEC 19,81	DEC 18,81	800	800	1900	2200	2	****	*	17159	2	1	****	D	M
DEC 20,81	DEC 19,81	800	800	100	400	2	****	*	17160	2	1	****	C	M
DEC 22,81	DEC 21,81	830	1030	****	****	2	****	*	17161	2	1	****	C	
DEC 22,81	DEC 21,81	830	1030	****	****	2	14.8	2	17167	2	1	18	D	N
DEC 23,81	DEC 22,81	800	800	****	****	2	24.3	2	17168	2	1	117		M
DEC 29,81	DEC 28,81	800	800	1500	1900	2	4.2	2	17169	2	1	131		N
JAN 1,82	DEC 31,81	800	800	1900	2200	1	5.0	2	17170	2	1	135		N

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LONGWOODS/DAILY/SES #02 PAGE : 5

SAMPLE DATE	INITIAL DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ MG/L	SULPHATE MG/L	NITRATE AS N MG/L
MAY 12,81	MAY 11,81	1177.	30.2	4.34	4.22	0.090	3.05	0.38
MAY 15,81	MAY 14,81	934.	34.3	5.69	6.68	0.028	7.15	1.06
MAY 16,81	MAY 15,81	291.	170.0	*****	3.56	*****	18.20	2.80
MAY 25,81	MAY 24,81	656.	108.0	*****	7.31	0.077	4.60	1.84
MAY 26,81	MAY 25,81	177.	*****	*****	4.07	*****	5.40	0.56
MAY 28,81	MAY 27,81	772.	55.0	*****	4.28	0.131	8.70	1.85
MAY 30,81	MAY 29,81	585.	16.6	*****	6.23	0.033	3.50	0.38
NOV 27,81	NOV 26,81	1031.	42.8	4.12	4.22	0.114	5.35	0.72
DEC 2,81	DEC 1,81	1345.	11.9	4.16	4.70	0.063	1.05	0.18
DEC 2,81	DEC 1,81	1296.	*****	*****	*****	*****	*****	*****
DEC 6,81	DEC 5,81	667.	11.0	5.95	6.07	0.042	1.70	0.27
DEC 8,81	DEC 7,81	U 444.	20.4	4.87	4.93	0.064	2.30	0.84
DEC 9,81	DEC 8,81	239.	9.8	*****	5.75	0.038	1.65	0.21
DEC 10,81	DEC 9,81	625.	4.0	5.86	5.74	0.040	0.55	0.05
DEC 11,81	DEC 10,81	84.	*****	*****	6.28	*****	1.50	0.06
DEC 15,81	DEC 14,81	144.	42.8	*****	4.70	*****	5.65	1.87
DEC 16,81	DEC 15,81	46.	*****	*****	6.98	*****	3.00	0.45
DEC 17,81	DEC 16,81	142.	14.6	*****	5.26	*****	0.70	0.74
DEC 19,81	DEC 18,81	1517.	8.4	*****	6.79	0.030	0.20	0.05
DEC 20,81	DEC 19,81	402.	5.7	*****	6.13	0.034	0.40	0.12
DEC 22,81	DEC 21,81	59.	*****	*****	6.45	*****	*****	*****
DEC 22,81	DEC 21,81	U 459.	13.5	*****	4.55	0.065	0.50	0.29
DEC 23,81	DEC 22,81	4682.	14.2	*****	4.51	0.072	0.65	0.16
DEC 29,81	DEC 28,81	907.	29.2	*****	4.49	0.077	2.50	1.05
JAN 1,82	DEC 31,81	1114.	37.6	*****	4.14	0.122	2.55	0.61

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LONGWOODS/DAILY/SES #02

SAMPLE DATE	INITIAL DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
MAY 12,81	MAY 11,81	0.09	0.08	0.010	0.020	0.050	0.460
MAY 15,81	MAY 14,81	4.10	0.22	0.650	0.070	0.050	0.920
MAY 16,81	MAY 15,81	1.37	0.55	0.175	0.110	0.100	2.600
MAY 25,81	MAY 24,81	22.50	1.03	0.980	0.620	0.280	0.780
MAY 26,81	MAY 25,81	0.27	0.17	0.040	0.050	0.080	0.800
MAY 28,81	MAY 27,81	2.12	0.44	0.350	0.240	0.080	1.840
MAY 30,81	MAY 29,81	1.21	0.15	0.205	0.170	0.040	0.590
NOV 27,81	NOV 26,81	0.99	0.51	0.160	0.090	0.410	0.560
DEC 2,81	DEC 1,81	0.22	< 0.01	0.035	< 0.010	0.020	0.090
DEC 2,81	DEC 1,81	*****	*****	*****	*****	*****	*****
DEC 6,81	DEC 5,81	0.82	< 0.01	0.135	0.020	0.060	0.400
DEC 8,81	DEC 7,81	0.55	0.18	0.090	0.080	0.110	1.050
DEC 9,81	DEC 8,81	0.57	0.05	0.125	0.020	0.060	0.268
DEC 10,81	DEC 9,81	0.26	0.02	0.045	0.020	0.030	0.074
DEC 11,81	DEC 10,81	*****	0.07	*****	*****	*****	0.180
DEC 15,81	DEC 14,81	3.40	1.20	0.455	0.110	0.620	0.720
DEC 16,81	DEC 15,81	*****	0.22	*****	*****	*****	*****
DEC 17,81	DEC 16,81	1.11	0.53	0.205	0.030	0.150	0.120
DEC 19,81	DEC 18,81	1.28	0.04	0.155	0.030	0.040	0.078
DEC 20,81	DEC 19,81	0.44	0.15	0.065	0.030	0.060	0.150
DEC 22,81	DEC 21,81	*****	*****	*****	*****	*****	*****
DEC 22,81	DEC 21,81	0.04	0.04	< 0.005	0.020	0.010	0.052
DEC 23,81	DEC 22,81	0.03	0.03	< 0.005	< 0.010	< 0.010	0.046
DEC 29,81	DEC 28,81	1.09	0.34	0.185	0.050	0.140	0.570
JAN 1,82	DEC 31,81	0.25	0.43	0.035	0.030	0.190	0.354

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NORTH EASTHOPE/DAILY/AEROCHEM #03

SAMPLE DATE	INITIAL DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
NOV 2,80	NOV 1,80	800	800	****	****	3	0.5	1	270	2	1	74	C	
NOV 4,80	NOV 3,80	800	800	****	800	1	3.2	1	271	2	1	90		
NOV 5,80	NOV 4,80	800	800	****	****	3	3.6	1	272	2	1	86	C	
NOV 7,80	NOV 6,80	800	800	****	****	1	3.2	1	273	2	1	78		L
NOV 8,80	NOV 7,80	800	900	****	****	1	5.4	1	274	2	1	101		L
NOV 9,80	NOV 8,80	900	800	****	****	1	3.0	1	275	2	1	90	G	M
NOV 10,80	NOV 9,80	800	730	1800	2400	1	1.4	1	276	2	1	143		N
NOV 11,80	NOV 10,80	730	900	****	****	2	****	*	2179	2	1	****	IE	C
NOV 14,80	NOV 13,80	800	800	1800	2400	1	5.4	1	278	2	1	90		L
NOV 18,80	NOV 17,80	800	800	1900	2400	2	****	*	279	2	1	****		
NOV 22,80	NOV 21,80	800	800	900	1500	3	2.6	1	280	2	1	36		N
NOV 23,80	NOV 22,80	800	800	****	****	1	0.6	1	2180	2	1	33	E	C
NOV 24,80	NOV 23,80	800	800	****	****	1	****	*	282	2	1	****		
NOV 28,80	NOV 27,80	800	800	****	****	2	6.6	1	283	2	1	84	C	L
NOV 29,80	NOV 28,80	800	800	****	****	2	4.8	1	284	2	1	74		L
DEC 2,80	DEC 1,80	800	800	****	****	1	10.8	1	285	2	1	104		L
DEC 3,80	DEC 2,80	800	800	2000	2400	3	13.8	1	286	2	1	85	C	
DEC 9,80	DEC 7,80	800	800	****	****	1	18.4	1	287	2	1	93		
DEC 10,80	DEC 9,80	800	800	1200	2400	2	2.4	1	288	2	1	81		
DEC 11,80	DEC 10,80	800	800	****	****	2	1.4	1	289	2	1	54	G	
DEC 12,80	DEC 11,80	800	800	****	****	2	****	*	290	2	1	****	E	
DEC 14,80	DEC 13,80	800	800	****	****	2	4.8	1	291	2	1	****		LM
DEC 15,80	DEC 14,80	800	800	****	****	2	****	*	292	2	1	****	C	
DEC 18,80	DEC 17,80	800	800	1800	2400	2	1.6	1	293	2	1	23		N
DEC 19,80	DEC 18,80	800	800	1800	2400	2	1.2	1	294	2	1	79	C	
DEC 20,80	DEC 19,80	800	800	2400	800	2	****	*	295	2	1	****		
DEC 21,80	DEC 20,80	800	800	****	****	2	3.0	1	296	2	1	132		NM
DEC 25,80	DEC 24,80	800	800	****	****	2	3.8	1	297	2	1	75		M
DEC 29,80	DEC 28,80	800	800	2400	800	3	3.4	1	298	2	1	93		M
DEC 30,80	DEC 29,80	800	800	800	1200	2	****	*	299	2	1	****		
JAN 2,81	JAN 1,81	800	800	****	****	2	****	*	2181	2	1	****	FE	C
JAN 3,81	JAN 2,81	800	800	****	****	2	3.8	1	301	2	1	60	C	
JAN 4,81	JAN 3,81	800	800	2400	800	2	0.3	1	302	2	1	36		
JAN 5,81	JAN 4,81	800	800	****	****	2	****	*	2182	2	1	****	FIE	C
JAN 6,81	JAN 5,81	800	800	900	1200	2	****	*	304	2	1	****		
JAN 7,81	JAN 6,81	800	800	****	****	2	****	*	305	2	1	****		
JAN 8,81	JAN 7,81	800	800	800	1600	2	0.8	1	306	2	1	83		
JAN 10,81	JAN 9,81	800	800	****	****	2	****	*	2183	2	1	****	EFI	C
JAN 11,81	JAN 10,81	800	800	****	****	2	0.8	1	308	2	1	97		
JAN 14,81	JAN 13,81	800	800	****	****	2	****	*	309	2	1	****		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NORTH EASTHOPE/DAILY/AEROCHEM #03

SAMPLE DATE	INITIAL DATE		VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ MG/L	SULPHATE MG/L	NITRATE AS N MG/L
NOV 2,80	NOV 1,80		24.	*****	*****	6.80	*****	*****	*****
NOV 4,80	NOV 3,80		185.	*****	*****	4.16	0.099	3.80	0.99
NOV 5,80	NOV 4,80		200.	*****	*****	4.62	0.064	3.65	0.78
NOV 7,80	NOV 6,80		160.	*****	*****	6.39	0.041	3.25	0.37
NOV 8,80	NOV 7,80		351.	29.5	4.34	4.76	0.067	4.20	1.27
NOV 9,80	NOV 8,80		174.	*****	*****	4.22	0.103	6.35	1.71
NOV 10,80	NOV 9,80		129.	*****	*****	5.03	0.033	1.35	0.30
NOV 11,80	NOV 10,80		*****	*****	*****	*****	*****	*****	*****
NOV 14,80	NOV 13,80		315.	45.5	*****	4.10	0.109	5.30	0.53
NOV 18,80	NOV 17,80		12.	*****	*****	5.99	*****	*****	*****
NOV 22,80	NOV 21,80	U	60.	*****	*****	6.27	*****	2.30	0.53
NOV 23,80	NOV 22,80	U	13.	*****	*****	*****	*****	*****	*****
NOV 24,80	NOV 23,80		95.	*****	*****	5.06	*****	1.25	0.38
NOV 28,80	NOV 27,80		358.	14.6	4.58	4.94	0.039	1.65	0.60
NOV 29,80	NOV 28,80		230.	*****	*****	4.05	0.118	3.05	0.94
DEC 2,80	DEC 1,80		724.	46.4	3.91	3.98	0.155	3.35	0.94
DEC 3,80	DEC 2,80		759.	17.7	4.36	4.50	0.062	1.90	0.32
DEC 9,80	DEC 7,80		1102.	27.8	4.13	4.20	0.095	2.50	0.42
DEC 10,80	DEC 9,80		126.	*****	*****	6.61	*****	0.23	0.13
DEC 11,80	DEC 10,80		49.	*****	*****	6.14	*****	0.75	0.26
DEC 12,80	DEC 11,80		*****	*****	*****	*****	*****	*****	*****
DEC 14,80	DEC 13,80		*****	*****	*****	6.59	*****	4.50	1.50
DEC 15,80	DEC 14,80		26.	*****	*****	6.85	*****	*****	*****
DEC 18,80	DEC 17,80	U	24.	*****	*****	5.56	*****	*****	*****
DEC 19,80	DEC 18,80		61.	*****	*****	6.75	*****	*****	*****
DEC 20,80	DEC 19,80		13.	*****	*****	6.80	*****	*****	*****
DEC 21,80	DEC 20,80		255.	*****	*****	5.78	0.037	0.20	0.06
DEC 25,80	DEC 24,80		185.	14.4	*****	4.66	*****	1.00	0.46
DEC 29,80	DEC 28,80		204.	6.8	*****	4.89	*****	0.70	0.46
DEC 30,80	DEC 29,80		221.	*****	*****	4.98	0.033	0.60	0.14
JAN 2,81	JAN 1,81		*****	*****	*****	*****	*****	*****	*****
JAN 3,81	JAN 2,81		147.	*****	*****	6.07	*****	0.40	0.18
JAN 4,81	JAN 3,81		7.	*****	*****	*****	*****	*****	*****
JAN 5,81	JAN 4,81		*****	*****	*****	*****	*****	*****	*****
JAN 6,81	JAN 5,81		22.	*****	*****	6.82	*****	*****	*****
JAN 7,81	JAN 6,81		159.	*****	*****	4.66	*****	0.40	0.42
JAN 8,81	JAN 7,81		43.	*****	*****	6.74	*****	0.35	0.06
JAN 10,81	JAN 9,81		*****	*****	*****	*****	*****	*****	*****
JAN 11,81	JAN 10,81		50.	*****	*****	6.05	*****	1.85	0.32
JAN 14,81	JAN 13,81		2.	*****	*****	*****	*****	*****	*****

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NORTH EASTHOPE/DAILY/AEROCHEM #03

SAMPLE DATE	INITIAL DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
NOV 2,80	NOV 1,80	*****	*****	*****	*****	*****	*****
NOV 4,80	NOV 3,80	0.59	0.14	0.115	0.040	0.040	0.750
NOV 5,80	NOV 4,80	0.32	0.12	0.060	0.070	0.035	1.300
NOV 7,80	NOV 6,80	1.31	0.17	0.225	0.060	0.045	0.540
NOV 8,80	NOV 7,80	1.29	0.24	0.125	0.090	0.055	1.350
NOV 9,80	NOV 8,80	1.17	0.41	0.190	0.100	0.185	0.970
NOV 10,80	NOV 9,80	*****	0.02	*****	*****	*****	0.470
NOV 11,80	NOV 10,80	*****	*****	*****	*****	*****	*****
NOV 14,80	NOV 13,80	1.26	0.26	0.205	0.070	0.090	0.540
NOV 18,80	NOV 17,80	*****	*****	*****	*****	*****	*****
NOV 22,80	NOV 21,80	*****	0.19	*****	*****	*****	*****
NOV 23,80	NOV 22,80	*****	*****	*****	*****	*****	*****
NOV 24,80	NOV 23,80	*****	0.07	*****	*****	*****	0.490
NOV 28,80	NOV 27,80	0.79	0.20	0.275	0.030	0.060	0.178
NOV 29,80	NOV 28,80	0.60	0.35	0.040	0.200	0.180	0.270
DEC 2,80	DEC 1,80	0.19	0.24	0.025	0.060	0.090	0.510
DEC 3,80	DEC 2,80	0.24	0.08	0.050	0.030	0.040	0.300
DEC 9,80	DEC 7,80	0.06	0.20	0.015	0.020	0.090	0.420
DEC 10,80	DEC 9,80	*****	0.29	*****	*****	*****	*****
DEC 11,80	DEC 10,80	*****	0.18	*****	*****	*****	*****
DEC 12,80	DEC 11,80	*****	*****	*****	*****	*****	*****
DEC 14,80	DEC 13,80	3.40	0.60	0.775	0.190	0.240	1.160
DEC 15,80	DEC 14,80	*****	*****	*****	*****	*****	*****
DEC 18,80	DEC 17,80	*****	*****	*****	*****	*****	*****
DEC 19,80	DEC 18,80	*****	*****	*****	*****	*****	*****
DEC 20,80	DEC 19,80	*****	*****	*****	*****	*****	*****
DEC 21,80	DEC 20,80	0.16	0.09	0.035	< 0.010	0.090	0.061
DEC 25,80	DEC 24,80	0.59	0.20	0.100	0.030	0.140	0.268
DEC 29,80	DEC 28,80	0.17	0.03	0.020	< 0.010	0.030	0.062
DEC 30,80	DEC 29,80	0.17	0.01	0.030	< 0.010	0.010	0.058
JAN 2,81	JAN 1,81	*****	*****	*****	*****	*****	*****
JAN 3,81	JAN 2,81	0.26	0.03	0.060	< 0.010	0.040	0.172
JAN 4,81	JAN 3,81	*****	*****	*****	*****	*****	*****
JAN 5,81	JAN 4,81	*****	*****	*****	*****	*****	*****
JAN 6,81	JAN 5,81	*****	*****	*****	*****	*****	*****
JAN 7,81	JAN 6,81	0.14	0.06	0.020	< 0.010	0.030	0.100
JAN 8,81	JAN 7,81	*****	0.12	*****	*****	*****	*****
JAN 10,81	JAN 9,81	*****	*****	*****	*****	*****	*****
JAN 11,81	JAN 10,81	*****	0.14	*****	*****	*****	*****
JAN 14,81	JAN 13,81	*****	*****	*****	*****	*****	*****

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NORTH EASTHOPE/DAILY/AEROCHEM #03

SAMPLE DATE	INITIAL DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
JAN 15,81	JAN 14,81	800	800	****	****	2	****	*	310	2	1	****		
JAN 16,81	JAN 15,81	800	800	****	****	2	****	*	311	2	1	****		M
MAY 6,81	MAY 5,81	800	800	1900	2300	1	1.8	1	18301	2	1	76	C	
MAY 10,81	MAY 9,81	800	800	1300	800	1	6.0	1	18302	2	1	93		
MAY 11,81	MAY 10,81	800	800	****	****	1	19.6	1	18303	2	1	101	QG	EC
MAY 12,81	MAY 11,81	800	800	****	****	1	3.2	1	18304	2	1	98		
MAY 15,81	MAY 14,81	800	800	1400	2000	1	4.2	1	18305	2	1	88	C	
MAY 16,81	MAY 15,81	800	800	****	****	1	10.4	1	18306	2	1	126		
MAY 25,81	MAY 24,81	800	800	2000	800	1	0.6	1	18307	2	1	38	E	
MAY 26,81	MAY 25,81	800	800	****	****	1	3.6	1	18308	2	1	81	Q	
MAY 27,81	MAY 26,81	800	800	****	****	1	1.0	1	18309	2	1	170		N
MAY 28,81	MAY 27,81	800	800	800	1500	1	4.0	1	18310	2	1	43	G	N
MAY 29,81	MAY 28,81	800	800	****	****	1	0.8	1	18311	2	1	52		
MAY 31,81	MAY 30,81	800	800	****	****	1	****	*	81312	2	1	****	E	
JUN 4,81	JUN 3,81	800	800	****	****	1	0.6	1	18313	2	1	****	E	
JUN 9,81	JUN 8,81	800	800	****	****	1	3.8	1	18314	2	1	85	C	
JUN 10,81	JUN 9,81	800	800	600	700	1	0.4	1	18315	2	1	39	E	
JUN 11,81	JUN 10,81	800	800	800	1600	1	1.7	1	18316	2	1	49		
JUN 14,81	JUN 13,81	800	800	900	100	1	10.0	1	18317	2	1	96	C	
JUN 15,81	JUN 14,81	800	800	800	1500	1	0.8	1	18318	2	1	****	AE	
JUN 17,81	JUN 16,81	800	800	1400	2000	1	5.7	1	18319	2	1	97	A	
JUN 21,81	JUN 20,81	800	800	****	****	1	17.2	1	18320	2	1	100	ACD	
JUN 22,81	JUN 21,81	800	800	****	****	1	25.0	1	18321	2	1	109	A	
JUN 23,81	JUN 22,81	800	800	900	1400	1	4.0	1	18322	2	1	86	C	
JUL 1,81	JUN 30,81	800	800	****	****	1	3.8	1	18323	2	1	94	C	
JUL 2,81	JUL 1,81	800	800	900	1200	1	1.2	1	18324	2	1	63	AC	
JUL 3,81	JUL 2,81	800	800	****	****	1	0.4	1	18325	2	1	54	CE	
JUL 5,81	JUL 4,81	800	800	****	****	1	10.2	1	18326	2	1	94	AC	
JUL 6,81	JUL 5,81	800	800	****	****	1	4.6	1	18327	2	1	29	CG	N
JUL 18,81	JUL 17,81	800	800	****	****	1	7.0	1	18328	2	1	88	AC	MF
JUL 19,81	JUL 18,81	800	700	****	****	1	12.0	1	18329	2	1	101	AC	M
JUL 20,81	JUL 19,81	800	800	****	****	1	1.0	1	18330	2	1	68		
JUL 21,81	JUL 20,81	800	800	800	1000	1	1.0	1	18331	2	1	53	A	
JUL 27,81	JUL 26,81	800	800	800	1400	1	9.6	1	18332	2	1	68	C	
JUL 28,81	JUL 27,81	900	900	****	****	1	22.6	1	18027	2	1	98		
JUL 28,81	JUL 27,81	800	900	****	****	1	16.3	1	18333	2	1	103	AC	
JUL 29,81	JUL 28,81	900	900	****	****	1	3.4	1	18028	2	1	62		
JUL 29,81	JUL 28,81	900	900	900	1600	1	21.4	1	18334	2	1	107	CJ	
AUG 4,81	AUG 3,81	800	800	800	1400	1	4.4	1	18335	2	1	60	A	M
AUG 5,81	AUG 4,81	800	800	****	****	1	4.8	1	18336	2	1	87		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NORTH EASTHOPE/DAILY/AEROCHEM #03

SAMPLE DATE	INITIAL DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ MG/L	SULPHATE MG/L	NITRATE AS N MG/L
JAN 15,81	JAN 14,81	17.	*****	*****	*****	*****	*****	*****
JAN 16,81	JAN 15,81	181.	85.0	*****	3.80	*****	5.35	1.90
MAY 6,81	MAY 5,81	88.	*****	*****	4.30	*****	12.80	2.65
MAY 10,81	MAY 9,81	358.	97.5	*****	3.73	0.245	10.40	1.25
MAY 11,81	MAY 10,81	U 1271.	89.0	6.51	6.91	0.200	7.70	0.75
MAY 12,81	MAY 11,81	202.	*****	*****	3.97	*****	6.40	0.65
MAY 15,81	MAY 14,81	238.	50.0	*****	7.19	0.060	6.20	0.67
MAY 16,81	MAY 15,81	844.	70.0	3.78	3.82	0.199	8.05	0.84
MAY 25,81	MAY 24,81	15.	*****	*****	*****	*****	*****	*****
MAY 26,81	MAY 25,81	189.	*****	*****	4.91	*****	9.85	0.76
MAY 27,81	MAY 26,81	109.	*****	*****	6.77	*****	9.50	2.62
MAY 28,81	MAY 27,81	U 111.	*****	*****	3.89	*****	9.80	1.31
MAY 29,81	MAY 28,81	27.	*****	*****	4.78	*****	*****	*****
MAY 31,81	MAY 30,81	*****	*****	*****	*****	*****	*****	*****
JUN 4,81	JUN 3,81	*****	*****	*****	*****	*****	*****	*****
JUN 9,81	JUN 8,81	209.	*****	*****	4.76	*****	4.45	0.52
JUN 10,81	JUN 9,81	10.	*****	*****	*****	*****	*****	*****
JUN 11,81	JUN 10,81	54.	*****	*****	6.77	*****	12.30	3.25
JUN 14,81	JUN 13,81	616.	26.7	*****	4.43	0.076	4.00	0.55
JUN 15,81	JUN 14,81	*****	*****	*****	*****	*****	*****	*****
JUN 17,81	JUN 16,81	358.	25.2	*****	4.56	0.065	3.55	0.58
JUN 21,81	JUN 20,81	1113.	40.6	*****	4.14	0.104	5.35	0.55
JUN 22,81	JUN 21,81	1756.	19.5	*****	4.40	0.070	2.00	0.25
JUN 23,81	JUN 22,81	222.	*****	*****	4.42	*****	3.05	0.36
JUL 1,81	JUN 30,81	230.	*****	*****	6.45	*****	2.00	0.29
JUL 2,81	JUL 1,81	49.	*****	*****	5.61	*****	8.90	1.26
JUL 3,81	JUL 2,81	14.	*****	*****	*****	*****	*****	*****
JUL 5,81	JUL 4,81	620.	76.0	*****	3.84	0.187	8.35	1.19
JUL 6,81	JUL 5,81	U 86.	*****	*****	4.30	*****	6.40	0.64
JUL 18,81	JUL 17,81	397.	64.0	*****	U 7.58	0.057	6.75	0.74
JUL 19,81	JUL 18,81	780.	95.0	*****	3.76	0.225	12.50	1.08
JUL 20,81	JUL 19,81	44.	*****	*****	3.73	*****	10.50	1.56
JUL 21,81	JUL 20,81	34.	*****	*****	3.56	*****	*****	*****
JUL 27,81	JUL 26,81	424.	101.5	*****	3.68	0.253	11.20	0.66
JUL 28,81	JUL 27,81	1434.	24.0	*****	4.37	0.069	1.75	0.17
JUL 28,81	JUL 27,81	1083.	U 22.0	*****	4.47	0.066	1.85	0.14
JUL 29,81	JUL 28,81	136.	*****	*****	3.85	*****	7.10	0.81
JUL 29,81	JUL 28,81	1477.	40.7	*****	4.08	0.113	3.60	0.41
AUG 4,81	AUG 3,81	170.	*****	*****	3.57	*****	17.30	0.99
AUG 5,81	AUG 4,81	269.	28.5	*****	4.45	0.072	4.40	0.56

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NORTH EASTHOPE/DAILY/AEROCHEM #03

SAMPLE DATE	INITIAL DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
JAN 15,81	JAN 14,81	*****	*****	*****	*****	*****	*****
JAN 16,81	JAN 15,81	0.56	1.18	0.140	0.050	0.260	0.284
MAY 6,81	MAY 5,81	*****	1.15	*****	*****	*****	4.350
MAY 10,81	MAY 9,81	0.39	0.22	0.070	0.050	0.050	1.160
MAY 11,81	MAY 10,81	1.19	1.60	0.220	1.500	0.630	9.000
MAY 12,81	MAY 11,81	0.36	0.19	0.070	0.050	0.040	0.770
MAY 15,81	MAY 14,81	*****	0.39	*****	*****	*****	3.650
MAY 16,81	MAY 15,81	0.25	0.18	0.045	0.070	0.040	0.730
MAY 25,81	MAY 24,81	*****	*****	*****	*****	*****	*****
MAY 26,81	MAY 25,81	*****	0.27	*****	*****	*****	1.640
MAY 27,81	MAY 26,81	*****	0.58	*****	*****	*****	3.200
MAY 28,81	MAY 27,81	*****	0.29	*****	*****	*****	2.070
MAY 29,81	MAY 28,81	*****	*****	*****	*****	*****	*****
MAY 31,81	MAY 30,81	*****	*****	*****	*****	*****	*****
JUN 4,81	JUN 3,81	*****	*****	*****	*****	*****	*****
JUN 9,81	JUN 8,81	0.85	0.22	0.180	0.070	0.040	0.900
JUN 10,81	JUN 9,81	*****	*****	*****	*****	*****	*****
JUN 11,81	JUN 10,81	*****	0.84	*****	*****	*****	*****
JUN 14,81	JUN 13,81	0.46	0.18	0.140	0.130	0.070	0.810
JUN 15,81	JUN 14,81	*****	*****	*****	*****	*****	*****
JUN 17,81	JUN 16,81	0.71	0.29	0.125	0.090	0.110	0.740
JUN 21,81	JUN 20,81	0.51	0.13	0.130	0.070	0.040	0.720
JUN 22,81	JUN 21,81	0.09	< 0.01	0.005	< 0.010	0.010	0.280
JUN 23,81	JUN 22,81	0.13	< 0.01	0.020	0.020	0.020	0.670
JUL 1,81	JUN 30,81	0.55	0.10	0.170	0.010	0.020	0.640
JUL 2,81	JUL 1,81	*****	0.69	*****	*****	*****	*****
JUL 3,81	JUL 2,81	*****	*****	*****	*****	*****	*****
JUL 5,81	JUL 4,81	0.63	0.27	0.115	0.130	0.080	1.040
JUL 6,81	JUL 5,81	*****	0.28	*****	*****	*****	*****
JUL 18,81	JUL 17,81	0.88	0.41	0.185	0.910	0.160	6.400
JUL 19,81	JUL 18,81	1.13	0.74	0.260	0.110	0.080	0.268
JUL 20,81	JUL 19,81	*****	0.41	*****	*****	*****	*****
JUL 21,81	JUL 20,81	*****	*****	*****	*****	*****	*****
JUL 27,81	JUL 26,81	0.40	0.16	0.050	0.050	0.040	0.800
JUL 28,81	JUL 27,81	0.06	0.10	0.005	0.010	0.070	0.096
JUL 28,81	JUL 27,81	0.12	0.10	0.020	0.050	0.060	0.174
JUL 29,81	JUL 28,81	0.21	0.35	0.045	0.090	0.170	*****
JUL 29,81	JUL 28,81	0.04	0.06	0.005	0.020	0.020	0.274
AUG 4,81	AUG 3,81	1.69	0.44	0.265	0.170	0.060	< 0.002
AUG 5,81	AUG 4,81	0.75	0.20	0.115	0.050	0.060	0.880

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NORTH EASTHOPE/DAILY/AEROCHEM #03

SAMPLE DATE	INITIAL DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
AUG 9,81	AUG 8,81	800	800	****	****	1	2.0	1	18337	2	1	50		
AUG 12,81	AUG 11,81	800	800	****	****	1	2.6	1	18338	2	1	79		
AUG 15,81	AUG 14,81	800	800	****	****	1	13.0	1	18339	2	1	96	A	
AUG 16,81	AUG 15,81	800	800	****	****	1	3.0	1	18340	2	1	84		
AUG 27,81	AUG 26,81	800	800	****	****	1	0.8	1	18341	2	1	54		
AUG 28,81	AUG 27,81	800	800	2000	800	1	7.2	1	18342	2	1	100	A	
AUG 29,81	AUG 28,81	800	800	****	****	1	6.4	1	18343	2	1	97		
AUG 30,81	AUG 29,81	800	800	****	****	1	25.0	1	18344	2	1	154		
AUG 31,81	AUG 30,81	800	800	****	****	1	****	1	18345	2	1	****		
SEP 1,81	AUG 31,81	800	800	****	****	1	1.0	1	18346	2	1	63		
SEP 2,81	SEP 1,81	800	830	1600	2130	1	29.0	1	18353	2	1	104		
SEP 3,81	SEP 2,81	800	800	****	****	1	1.0	1	18347	2	1	42		ND
SEP 4,81	SEP 3,81	800	800	****	****	1	42.3	1	18354	2	1	105	C	
SEP 5,81	SEP 4,81	800	800	****	****	1	3.0	1	18348	2	1	71		
SEP 7,81	SEP 6,81	800	800	****	****	1	4.1	1	18349	2	1	108		
SEP 8,81	SEP 7,81	800	800	****	****	1	1.6	1	18350	2	1	65		
SEP 14,81	SEP 13,81	800	800	****	****	1	1.6	1	18351	2	1	31	C	
SEP 17,81	SEP 16,81	800	800	****	****	1	3.0	1	18352	2	1	86		
SEP 18,81	SEP 17,81	800	800	****	****	1	7.6	1	18355	2	1	113		
SEP 22,81	SEP 21,81	800	800	****	****	1	16.4	1	18356	2	1	98		
SEP 26,81	SEP 25,81	800	800	****	****	1	4.0	1	18357	2	1	79		
SEP 27,81	SEP 26,81	800	800	****	****	1	4.8	1	18358	2	1	88		
SEP 28,81	SEP 27,81	800	800	****	****	1	2.6	1	18359	2	1	70	C	
SEP 29,81	SEP 28,81	800	800	800	1100	1	1.4	1	18360	2	1	43	BC	
SEP 30,81	SEP 29,81	800	800	2000	800	1	12.4	1	18361	2	1	86	AD	
OCT 1,81	SEP 30,81	800	800	800	1400	1	13.8	1	18362	2	1	97	AC	
OCT 3,81	OCT 2,81	800	800	****	****	1	0.3	1	18363	2	1	109	C	
OCT 6,81	OCT 5,81	800	800	****	****	1	****	1	18364	2	1	****		
OCT 7,81	OCT 6,81	800	800	****	****	1	9.4	1	18365	2	1	83		
OCT 15,81	OCT 14,81	800	800	****	****	1	1.6	1	18366	2	1	38	C	
OCT 16,81	OCT 15,81	800	800	****	****	1	1.0	1	18367	2	1	32	C	
OCT 18,81	OCT 17,81	800	800	****	****	1	15.6	1	18368	2	1	98		
OCT 19,81	OCT 18,81	800	800	800	800	3	6.8	1	18369	2	1	95	BC	
OCT 20,81	OCT 19,81	800	800	800	1600	1	2.4	1	18370	2	1	40		N
OCT 21,81	OCT 20,81	800	800	****	****	1	2.2	1	18371	2	1	75	C	
OCT 22,81	OCT 21,81	800	800	****	****	3	9.2	1	18372	2	1	116		
OCT 23,81	OCT 22,81	800	800	1400	800	1	16.0	1	18373	2	1	92		
OCT 24,81	OCT 23,81	800	800	800	2000	3	4.0	1	18374	2	1	10	C	
OCT 26,81	OCT 25,81	800	800	****	****	1	1.8	1	18375	2	1	117		
OCT 28,81	OCT 27,81	800	800	****	****	1	22.5	1	18376	2	1	100		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NORTH EASTHOPE/DAILY/AEROCHEM #03

SAMPLE DATE	INITIAL DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ MG/L	SULPHATE MG/L	NITRATE AS N MG/L
AUG 9,81	AUG 8,81	65.	*****	*****	3.74	*****	11.50	2.32
AUG 12,81	AUG 11,81	132.	*****	*****	4.02	*****	8.30	0.89
AUG 15,81	AUG 14,81	805.	77.5	*****	3.80	0.204	7.60	0.86
AUG 16,81	AUG 15,81	162.	*****	*****	3.64	*****	13.00	1.39
AUG 27,81	AUG 26,81	28.	*****	*****	*****	*****	> 10.00	3.15
AUG 28,81	AUG 27,81	462.	106.0	*****	3.68	0.261	10.00	1.21
AUG 29,81	AUG 28,81	399.	137.0	*****	3.56	0.340	14.50	1.43
AUG 30,81	AUG 29,81	U 2480.	84.5	*****	3.79	0.208	8.70	0.76
AUG 31,81	AUG 30,81	3880.	28.3	*****	4.33	0.083	3.30	0.28
SEP 1,81	AUG 31,81	41.	*****	*****	3.86	*****	6.95	1.40
SEP 2,81	SEP 1,81	1934.	24.2	4.17	4.23	0.078	2.35	0.21
SEP 3,81	SEP 2,81	U 27.	*****	*****	3.68	*****	*****	*****
SEP 4,81	SEP 3,81	2852.	23.0	4.21	4.21	0.083	1.90	0.28
SEP 5,81	SEP 4,81	138.	*****	*****	3.76	*****	9.05	1.53
SEP 7,81	SEP 6,81	285.	14.9	*****	6.41	0.030	2.60	0.37
SEP 8,81	SEP 7,81	67.	*****	*****	3.97	*****	5.55	0.92
SEP 14,81	SEP 13,81	32.	*****	*****	7.04	*****	8.20	> 2.00
SEP 17,81	SEP 16,81	167.	*****	*****	6.45	*****	1.45	0.19
SEP 18,81	SEP 17,81	555.	33.8	4.06	4.17	0.097	3.20	0.45
SEP 22,81	SEP 21,81	1040.	20.0	4.29	4.45	0.064	1.80	0.21
SEP 26,81	SEP 25,81	205.	*****	*****	3.93	*****	8.20	0.96
SEP 27,81	SEP 26,81	272.	30.8	*****	4.28	0.082	3.25	0.41
SEP 28,81	SEP 27,81	118.	*****	*****	5.99	*****	0.50	0.04
SEP 29,81	SEP 28,81	39.	*****	*****	6.79	*****	1.60	0.05
SEP 30,81	SEP 29,81	691.	16.0	4.45	4.54	0.062	1.75	0.16
OCT 1,81	SEP 30,81	864.	24.5	4.32	4.38	0.087	2.70	0.28
OCT 3,81	OCT 2,81	21.	*****	*****	4.13	*****	*****	*****
OCT 6,81	OCT 5,81	560.	46.2	3.97	4.08	0.123	4.10	0.68
OCT 7,81	OCT 6,81	503.	16.4	4.48	4.64	0.064	1.75	0.31
OCT 15,81	OCT 14,81	40.	*****	*****	4.26	*****	*****	*****
OCT 16,81	OCT 15,81	21.	*****	*****	4.83	*****	*****	*****
OCT 18,81	OCT 17,81	984.	19.5	4.37	4.31	0.072	1.60	0.22
OCT 19,81	OCT 18,81	415.	9.4	5.67	6.52	0.039	0.70	< 0.01
OCT 20,81	OCT 19,81	U 63.	*****	*****	5.99	*****	0.20	< 0.01
OCT 21,81	OCT 20,81	106.	*****	*****	4.12	*****	2.90	1.05
OCT 22,81	OCT 21,81	686.	36.5	4.11	4.18	0.095	3.00	0.67
OCT 23,81	OCT 22,81	947.	16.2	4.48	4.43	0.075	1.20	0.16
OCT 24,81	OCT 23,81	28.	*****	*****	4.72	*****	*****	*****
OCT 26,81	OCT 25,81	135.	*****	*****	4.01	*****	2.40	0.83
OCT 28,81	OCT 27,81	1448.	12.1	4.67	4.69	0.047	1.30	0.10

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NORTH EASTHOPE/DAILY/AEROCHEM #03

SAMPLE DATE	INITIAL DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
AUG 9,81	AUG 8,81	*****	0.66	*****	*****	*****	*****
AUG 12,81	AUG 11,81	1.05	0.31	0.165	0.110	0.060	1.090
AUG 15,81	AUG 14,81	0.34	0.24	0.070	0.090	0.070	0.560
AUG 16,81	AUG 15,81	0.30	0.32	0.050	0.060	0.080	1.480
AUG 27,81	AUG 26,81	*****	1.64	*****	*****	*****	*****
AUG 28,81	AUG 27,81	0.39	0.28	0.060	0.050	0.040	0.700
AUG 29,81	AUG 28,81	0.37	0.36	0.065	0.080	0.080	1.000
AUG 30,81	AUG 29,81	0.36	0.20	0.045	0.030	0.030	0.590
AUG 31,81	AUG 30,81	0.13	0.10	0.010	0.020	0.010	0.520
SEP 1,81	AUG 31,81	*****	0.42	*****	*****	*****	*****
SEP 2,81	SEP 1,81	0.16	0.02	0.025	0.010	0.020	0.134
SEP 3,81	SEP 2,81	*****	*****	*****	*****	*****	*****
SEP 4,81	SEP 3,81	0.05	0.40	< 0.005	0.020	0.020	0.150
SEP 5,81	SEP 4,81	0.69	0.68	0.075	0.120	0.320	1.270
SEP 7,81	SEP 6,81	0.25	0.10	0.065	0.030	0.010	1.220
SEP 8,81	SEP 7,81	*****	0.41	*****	*****	*****	*****
SEP 14,81	SEP 13,81	*****	1.10	*****	*****	*****	*****
SEP 17,81	SEP 16,81	0.80	0.17	0.180	0.080	0.040	0.214
SEP 18,81	SEP 17,81	0.15	0.04	0.040	0.010	0.030	0.330
SEP 22,81	SEP 21,81	0.03	0.02	0.015	0.010	0.010	0.282
SEP 26,81	SEP 25,81	1.08	0.17	0.240	0.030	0.070	0.780
SEP 27,81	SEP 26,81	0.51	0.10	0.055	0.020	0.080	0.350
SEP 28,81	SEP 27,81	0.08	0.02	0.020	0.020	0.080	0.188
SEP 29,81	SEP 28,81	*****	0.14	*****	*****	*****	*****
SEP 30,81	SEP 29,81	0.17	< 0.01	0.030	< 0.010	0.020	0.126
OCT 1,81	SEP 30,81	0.09	0.02	0.015	0.010	0.030	0.340
OCT 3,81	OCT 2,81	*****	*****	*****	*****	*****	*****
OCT 6,81	OCT 5,81	0.11	0.10	0.020	0.010	0.060	0.600
OCT 7,81	OCT 6,81	0.04	0.03	0.010	0.020	0.030	0.390
OCT 15,81	OCT 14,81	*****	*****	*****	*****	*****	*****
OCT 16,81	OCT 15,81	*****	*****	*****	*****	*****	*****
OCT 18,81	OCT 17,81	0.10	< 0.01	0.010	< 0.010	< 0.010	0.124
OCT 19,81	OCT 18,81	0.40	0.07	0.275	U 1.350	0.030	< 0.002
OCT 20,81	OCT 19,81	*****	0.08	*****	*****	*****	*****
OCT 21,81	OCT 20,81	*****	0.16	*****	*****	*****	0.780
OCT 22,81	OCT 21,81	0.12	0.10	0.025	0.020	0.020	0.550
OCT 23,81	OCT 22,81	0.05	0.04	0.010	< 0.010	0.010	0.114
OCT 24,81	OCT 23,81	*****	*****	*****	*****	*****	*****
OCT 26,81	OCT 25,81	0.22	0.30	0.040	0.020	0.090	0.016
OCT 28,81	OCT 27,81	0.07	0.02	0.040	0.020	0.030	0.116

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NORTH EASTHOPE/DAILY/AEROCHEM #03 PAGE : 10

SAMPLE DATE	INITIAL DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
NOV 6,81	NOV 5,81	800	800	****	****	1	3.2	1	18377	2	1	88		
NOV 7,81	NOV 6,81	800	800	****	****	3	2.3	1	18378	2	1	63		
DEC 4,81	DEC 3,81	800	800	****	****	1	****	2	18390	2	1	****	C	
DEC 5,81	DEC 4,81	800	800	****	****	2	1.0	2	18391	2	1	145	CD	N
DEC 6,81	DEC 5,81	800	800	****	****	2	0.6	2	18392	2	1	78	HL	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NORTH EASTHOPE/DAILY/AEROCHEM #03

SAMPLE DATE	INITIAL DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ MG/L	SULPHATE MG/L	NITRATE AS N MG/L
NOV 6,81	NOV 5,81	181.	*****	*****	4.19	*****	4.85	0.64
NOV 7,81	NOV 6,81	94.	*****	*****	6.52	*****	2.15	0.74
DEC 4,81	DEC 3,81	37.	*****	*****	7.17	*****	5.80	1.03
DEC 5,81	DEC 4,81	93.	*****	*****	6.14	*****	1.90	0.21
DEC 6,81	DEC 5,81	30.	*****	*****	4.56	*****	*****	*****

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NORTH EASTHOPE/DAILY/AEROCHEM #03

SAMPLE DATE	INITIAL DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
NOV 6,81	NOV 5,81	0.27	0.56	0.055	0.030	0.120	0.790
NOV 7,81	NOV 6,81	*****	0.40	*****	*****	*****	0.322
DEC 4,81	DEC 3,81	*****	> 1.50	*****	*****	*****	*****
DEC 5,81	DEC 4,81	*****	0.18	*****	*****	*****	0.590
DEC 6,81	DEC 5,81	*****	*****	*****	*****	*****	*****

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NORTH EASTHOPE/DAILY/SES #03

SAMPLE DATE	INITIAL DATE	SAMPLING START/END HR.	SAMPLING START/END HR.	PRECIP START/END HR.	PRECIP START/END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
JAN 17,81	JAN 16,81	800	800	****	****	2	0.4	1	312	2	1	89		L
JAN 19,81	JAN 18,81	800	800	****	****	2	****	*	313	2	1	****		L
JAN 20,81	JAN 19,81	800	800	****	****	2	****	*	314	2	1	****		L
JAN 21,81	JAN 20,81	800	800	****	****	2	****	*	315	2	1	****		
JAN 22,81	JAN 21,81	800	800	****	****	2	****	*	316	2	1	****		L
JAN 23,81	JAN 22,81	800	800	****	****	2	****	*	317	2	1	****	C	
JAN 24,81	JAN 23,81	800	800	****	****	2	****	*	318	2	1	****		
JAN 25,81	JAN 24,81	800	800	****	****	2	****	*	2184	2	1	****	EI	
JAN 26,81	JAN 25,81	800	800	****	****	2	****	*	320	2	1	****		L
JAN 27,81	JAN 26,81	800	800	****	****	2	****	*	321	2	1	****		
JAN 29,81	JAN 28,81	800	800	****	****	2	****	*	322	2	1	****		L
JAN 30,81	JAN 29,81	800	800	****	****	2	****	*	323	2	1	****		
JAN 31,81	JAN 30,81	800	800	****	****	2	****	*	324	2	1	****		
FEB 2,81	FEB 1,81	800	800	****	****	2	****	*	325	2	1	****		
FEB 3,81	FEB 2,81	800	800	****	****	2	****	*	326	2	1	****		
FEB 4,81	FEB 3,81	800	800	****	****	2	****	*	327	2	1	****		L
FEB 5,81	FEB 4,81	800	800	****	****	2	****	*	1698	2	1	****	C	
FEB 6,81	FEB 5,81	800	800	****	****	2	****	*	1699	2	1	****	C	
FEB 7,81	FEB 6,81	800	800	800	****	2	****	*	1700	2	1	****	C	
FEB 8,81	FEB 7,81	800	800	****	****	2	****	*	2476	2	1	****	CE	
FEB 9,81	FEB 8,81	800	800	****	****	2	****	*	1701	2	1	****	C	
FEB 10,81	FEB 9,81	800	800	****	****	2	****	*	1702	2	1	****	C	
FEB 11,81	FEB 10,81	800	800	1200	800	3	****	*	1703	2	1	****	C	
FEB 12,81	FEB 11,81	800	800	****	****	2	****	*	1704	2	1	****	C	
FEB 17,81	FEB 16,81	800	800	****	****	2	****	*	1705	2	1	****	C	
FEB 18,81	FEB 17,81	800	800	****	****	1	****	*	1706	2	1	****	C	
FEB 19,81	FEB 18,81	800	800	****	****	3	****	*	1707	2	1	****		
FEB 20,81	FEB 19,81	800	800	****	****	1	****	*	1708	2	1	****	D	
FEB 21,81	FEB 20,81	800	800	****	****	1	****	*	1709	2	1	****		
FEB 22,81	FEB 21,81	800	800	****	****	1	****	*	1710	2	1	****		
FEB 23,81	FEB 22,81	800	800	****	800	1	****	*	1711	2	1	****		
FEB 24,81	FEB 23,81	800	800	800	****	1	****	*	1712	2	1	****		
FEB 25,81	FEB 24,81	800	800	****	****	3	****	*	1713	2	1	****	C	
FEB 28,81	FEB 27,81	800	800	****	****	3	11.0	1	1714	2	1	89	C	
MAR 1,81	FEB 28,81	800	800	****	****	2	****	*	2477	2	1	****	CE	
MAR 2,81	MAR 1,81	800	800	****	****	2	1.0	2	1715	2	1	61	C	
MAR 3,81	MAR 2,81	800	800	****	****	2	****	*	1716	2	1	****	C	
MAR 5,81	MAR 4,81	800	800	****	****	2	1.5	2	1717	2	1	49		N
MAR 6,81	MAR 5,81	800	800	****	****	2	0.6	2	2478	2	1	29	CE	
MAR 7,81	MAR 6,81	800	800	****	****	2	****	*	1718	2	1	****		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NORTH EASTHOPE/DAILY/SES #03

SAMPLE DATE	INITIAL DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ MG/L	SULPHATE MG/L	NITRATE AS N MG/L
JAN 17,81	JAN 16,81	59.	*****	*****	3.84	*****	1.09	1.93
JAN 19,81	JAN 18,81	47.	*****	*****	5.75	*****	4.10	1.60
JAN 20,81	JAN 19,81	39.	*****	*****	4.47	*****	15.60	5.50
JAN 21,81	JAN 20,81	10.	*****	*****	*****	*****	*****	*****
JAN 22,81	JAN 21,81	35.	*****	*****	4.07	*****	11.80	2.60
JAN 23,81	JAN 22,81	294.	15.6	*****	4.85	0.042	2.35	0.27
JAN 24,81	JAN 23,81	36.	*****	*****	5.31	*****	2.25	0.18
JAN 25,81	JAN 24,81	*****	*****	*****	*****	*****	*****	*****
JAN 26,81	JAN 25,81	222.	49.6	*****	5.16	0.062	9.25	1.52
JAN 27,81	JAN 26,81	75.	*****	*****	4.89	*****	2.60	0.66
JAN 29,81	JAN 28,81	226.	33.2	*****	4.31	*****	1.45	1.44
JAN 30,81	JAN 29,81	27.	*****	*****	*****	*****	*****	*****
JAN 31,81	JAN 30,81	105.	*****	*****	7.12	*****	3.10	0.56
FEB 2,81	FEB 1,81	1700.	26.8	4.26	4.25	0.081	1.85	0.53
FEB 3,81	FEB 2,81	347.	18.6	*****	4.53	0.057	0.75	0.62
FEB 4,81	FEB 3,81	62.	*****	*****	4.08	*****	1.80	1.77
FEB 5,81	FEB 4,81	65.	*****	*****	4.66	*****	1.65	0.80
FEB 6,81	FEB 5,81	71.	*****	*****	4.22	*****	1.10	1.40
FEB 7,81	FEB 6,81	97.	*****	*****	4.05	*****	3.05	1.67
FEB 8,81	FEB 7,81	32.	*****	*****	*****	*****	*****	*****
FEB 9,81	FEB 8,81	98.	*****	*****	4.40	*****	1.35	0.96
FEB 10,81	FEB 9,81	51.	*****	*****	4.79	*****	2.25	1.17
FEB 11,81	FEB 10,81	4707.	21.0	4.38	4.38	0.071	1.65	0.36
FEB 12,81	FEB 11,81	163.	*****	*****	5.21	*****	1.60	0.56
FEB 17,81	FEB 16,81	220.	58.0	*****	3.97	*****	5.25	0.97
FEB 18,81	FEB 17,81	51.	*****	*****	3.44	*****	*****	*****
FEB 19,81	FEB 18,81	47.	*****	*****	3.73	*****	28.50	6.00
FEB 20,81	FEB 19,81	169.	91.0	*****	3.96	*****	12.00	1.74
FEB 21,81	FEB 20,81	32.	*****	*****	*****	*****	11.80	2.50
FEB 22,81	FEB 21,81	82.	*****	*****	3.96	*****	12.00	2.10
FEB 23,81	FEB 22,81	1841.	22.7	4.14	4.36	0.070	1.95	0.37
FEB 24,81	FEB 23,81	1337.	15.8	4.34	4.52	0.062	1.45	0.30
FEB 25,81	FEB 24,81	210.	*****	*****	6.45	*****	3.70	0.84
FEB 28,81	FEB 27,81	1609.	45.0	3.82	4.12	0.120	4.80	0.72
MAR 1,81	FEB 28,81	30.	*****	*****	*****	*****	*****	*****
MAR 2,81	MAR 1,81	100.	*****	*****	6.04	*****	6.55	1.27
MAR 3,81	MAR 2,81	64.	*****	*****	7.74	*****	2.55	0.17
MAR 5,81	MAR 4,81	U 122.	*****	*****	4.48	*****	4.05	1.37
MAR 6,81	MAR 5,81	29.	*****	*****	*****	*****	*****	*****
MAR 7,81	MAR 6,81	57.	*****	*****	7.72	*****	1.40	0.15

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NORTH EASTHOPE/DAILY/SES #03

SAMPLE DATE	INITIAL DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
JAN 17,81	JAN 16,81	0.30	0.90	0.050	0.030	0.250	*****
JAN 19,81	JAN 18,81	*****	0.67	*****	*****	*****	*****
JAN 20,81	JAN 19,81	*****	2.40	*****	*****	*****	*****
JAN 21,81	JAN 20,81	*****	*****	*****	*****	*****	*****
JAN 22,81	JAN 21,81	*****	3.00	*****	*****	*****	*****
JAN 23,81	JAN 22,81	0.16	0.17	0.035	0.030	0.090	0.630
JAN 24,81	JAN 23,81	*****	0.23	*****	*****	*****	*****
JAN 25,81	JAN 24,81	*****	*****	*****	*****	*****	*****
JAN 26,81	JAN 25,81	1.34	0.40	0.260	0.170	0.150	3.000
JAN 27,81	JAN 26,81	0.20	0.31	0.090	0.020	0.140	*****
JAN 29,81	JAN 28,81	0.58	0.54	0.130	0.040	0.200	0.800
JAN 30,81	JAN 29,81	*****	*****	*****	*****	*****	*****
JAN 31,81	JAN 30,81	2.85	0.96	0.200	0.050	0.580	0.630
FEB 2,81	FEB 1,81	0.11	0.14	0.010	0.020	0.020	0.318
FEB 3,81	FEB 2,81	0.15	0.31	0.050	0.020	0.080	0.296
FEB 4,81	FEB 3,81	1.41	2.20	*****	0.090	0.970	*****
FEB 5,81	FEB 4,81	*****	0.67	*****	*****	*****	*****
FEB 6,81	FEB 5,81	*****	0.72	*****	*****	*****	*****
FEB 7,81	FEB 6,81	*****	1.06	*****	*****	*****	*****
FEB 8,81	FEB 7,81	*****	*****	*****	*****	*****	*****
FEB 9,81	FEB 8,81	*****	0.54	*****	*****	*****	0.450
FEB 10,81	FEB 9,81	*****	1.28	*****	*****	*****	*****
FEB 11,81	FEB 10,81	0.14	0.11	0.030	0.010	0.190	0.124
FEB 12,81	FEB 11,81	0.36	0.60	0.145	0.240	0.480	0.370
FEB 17,81	FEB 16,81	0.18	0.60	0.045	0.160	0.300	0.850
FEB 18,81	FEB 17,81	*****	*****	*****	*****	*****	*****
FEB 19,81	FEB 18,81	*****	6.30	*****	*****	*****	*****
FEB 20,81	FEB 19,81	*****	0.96	0.065	0.570	0.590	3.050
FEB 21,81	FEB 20,81	*****	0.86	*****	*****	*****	*****
FEB 22,81	FEB 21,81	*****	1.07	*****	*****	*****	3.750
FEB 23,81	FEB 22,81	0.04	0.08	0.010	0.010	0.030	0.238
FEB 24,81	FEB 23,81	0.05	0.04	0.005	0.020	0.020	0.262
FEB 25,81	FEB 24,81	1.29	0.44	0.215	0.060	0.280	1.030
FEB 28,81	FEB 27,81	0.66	0.28	0.110	0.040	0.140	0.510
MAR 1,81	FEB 28,81	*****	*****	*****	*****	*****	*****
MAR 2,81	MAR 1,81	*****	0.27	*****	*****	*****	2.070
MAR 3,81	MAR 2,81	*****	0.33	*****	*****	*****	0.500
MAR 5,81	MAR 4,81	*****	0.57	*****	*****	*****	1.000
MAR 6,81	MAR 5,81	*****	*****	*****	*****	*****	*****
MAR 7,81	MAR 6,81	*****	0.34	*****	*****	*****	*****

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NORTH EASTHOPE/DAILY/SES #03 PAGE : 4

SAMPLE DATE	INITIAL DATE	SAMPLING START/END HR.	SAMPLING START/END HR.	PRECIP START/END HR.	PRECIP START/END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
MAR 9,81	MAR 8,81	800	800	****	****	2	0.4	2	1719	2	1	158		N
MAR 10,81	MAR 9,81	800	800	****	****	2	1.2	2	1720	2	1	116		
MAR 11,81	MAR 10,81	800	800	****	****	2	1.2	2	1721	2	1	246		N
MAR 12,81	MAR 11,81	800	800	800	1000	2	1.6	2	1722	2	1	47	C	N
MAR 14,81	MAR 13,81	800	800	****	****	2	1.4	2	2479	2	1	5	CE	
MAR 16,81	MAR 15,81	800	800	****	****	1	****	2	2480	2	1	****	CE	
MAR 17,81	MAR 16,81	800	800	****	1200	2	****	*	1723	2	1	****	C	M
MAR 18,81	MAR 17,81	800	800	****	****	2	****	*	1724	2	1	****	C	
MAR 19,81	MAR 18,81	800	800	****	****	2	0.8	2	1725	2	1	104		
MAR 20,81	MAR 19,81	800	800	****	****	2	0.6	2	1726	2	1	115		
MAR 21,81	MAR 20,81	800	800	****	****	2	4.4	2	1727	2	1	103		
MAR 25,81	MAR 24,81	800	800	****	****	3	****	*	1728	2	1	****	D	
MAR 27,81	MAR 26,81	800	800	****	****	1	12.6	2	1729	2	1	112		
MAR 28,81	MAR 27,81	800	800	****	****	1	****	*	2145	2	1	****	CDG	
MAR 30,81	MAR 29,81	800	800	****	800	1	7.4	2	1730	2	1	101	C	
MAR 31,81	MAR 30,81	800	800	800	****	1	7.4	2	1731	2	1	114		
APR 1,81	MAR 31,81	800	800	****	****	3	****	*	1732	2	1	****		
APR 2,81	APR 1,81	800	800	****	1000	1	****	*	1733	2	1	****	C	
APR 4,81	APR 3,81	800	800	****	****	1	2.4	2	2322	2	1	145	C	N
APR 5,81	APR 4,81	800	800	****	****	1	****	*	1734	2	1	****	C	
APR 6,81	APR 5,81	800	800	****	****	2	0.6	2	1735	2	1	56	C	
APR 9,81	APR 8,81	800	800	****	****	1	****	*	2019	2	1	****		EC
APR 11,81	APR 10,81	800	800	****	800	1	5.9	2	2020	2	1	100		M
APR 13,81	APR 12,81	800	800	****	****	1	****	*	2021	2	1	****	AC	
APR 14,81	APR 13,81	800	800	2400	800	1	18.4	2	2022	2	1	100	A	
APR 15,81	APR 14,81	800	800	****	****	1	0.8	2	2023	2	1	221		N
APR 16,81	APR 15,81	800	800	****	****	1	****	*	2147	2	1	****	G	X
APR 17,81	APR 16,81	800	900	2400	800	1	10.0	2	2024	2	1	101	A	
APR 23,81	APR 22,81	800	800	****	800	1	7.3	2	2025	2	1	108	A	M
APR 24,81	APR 23,81	800	800	****	****	1	4.5	2	2026	2	1	138		N
APR 25,81	APR 24,81	800	800	****	****	1	****	*	2027	2	1	****	C	
APR 28,81	APR 27,81	800	800	500	800	1	16.0	1	2028	2	1	50	C	MF
APR 29,81	APR 28,81	800	800	800	1000	1	5.4	1	2029	2	1	95	A	
NOV 17,81	NOV 16,81	800	800	900	1300	1	3.6	2	18379	2	1	122		M
NOV 19,81	NOV 18,81	800	800	****	****	1	0.4	2	18380	2	1	161		N
NOV 20,81	NOV 19,81	800	800	1900	800	1	12.0	2	18381	2	1	103	C	
NOV 21,81	NOV 20,81	800	800	800	800	3	12.0	2	18382	2	1	102		
NOV 22,81	NOV 21,81	800	800	800	800	3	****	2	18383	2	1	****		
NOV 27,81	NOV 26,81	800	800	****	****	1	****	2	18384	2	1	****	C	
NOV 29,81	NOV 28,81	800	800	****	****	1	****	2	18385	2	1	****	C	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NORTH EASTHOPE/DAILY/SES #03

SAMPLE DATE	INITIAL DATE		VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ MG/L	SULPHATE MG/L	NITRATE AS N MG/L
MAR 9,81	MAR 8,81		104.	*****	*****	5.96	*****	1.65	0.25
MAR 10,81	MAR 9,81		230.	34.8	*****	5.94	0.042	3.95	1.99
MAR 11,81	MAR 10,81		484.	33.0	4.35	4.37	0.081	2.45	1.18
MAR 12,81	MAR 11,81	U	125.	*****	*****	6.42	*****	2.15	0.51
MAR 14,81	MAR 13,81		13.	*****	*****	*****	*****	*****	*****
MAR 16,81	MAR 15,81		17.	*****	*****	*****	*****	*****	*****
MAR 17,81	MAR 16,81		332.	*****	*****	7.17	0.022	0.50	0.49
MAR 18,81	MAR 17,81		110.	*****	*****	7.63	*****	1.00	0.22
MAR 19,81	MAR 18,81		137.	*****	*****	6.80	*****	0.90	0.23
MAR 20,81	MAR 19,81		114.	*****	*****	7.23	0.045	1.65	0.12
MAR 21,81	MAR 20,81		743.	15.8	4.79	4.82	*****	2.70	0.25
MAR 25,81	MAR 24,81		41.	*****	*****	7.18	0.063	12.20	0.20
MAR 27,81	MAR 26,81		2329.	26.5	4.46	4.51	*****	2.45	0.84
MAR 28,81	MAR 27,81		33.	*****	*****	*****	0.066	*****	*****
MAR 30,81	MAR 29,81		1226.	23.8	4.46	4.62	0.051	4.00	0.40
MAR 31,81	MAR 30,81		1391.	15.8	4.54	4.76	*****	2.05	0.32
APR 1,81	MAR 31,81		16.	*****	*****	7.27	*****	*****	*****
APR 2,81	APR 1,81		104.	*****	*****	4.86	0.040	11.00	1.50
APR 4,81	APR 3,81		571.	35.0	5.95	6.33	*****	8.00	1.15
APR 5,81	APR 4,81		76.	*****	*****	7.28	*****	*****	*****
APR 6,81	APR 5,81		56.	*****	*****	6.17	0.048	*****	*****
APR 9,81	APR 8,81		337.	72.0	4.83	7.27	0.045	10.40	1.81
APR 11,81	APR 10,81		973.	14.4	*****	4.76	*****	1.80	0.05
APR 13,81	APR 12,81		157.	*****	4.25	6.83	0.090	6.21	0.80
APR 14,81	APR 13,81		3041.	27.9	*****	4.24	0.067	2.90	0.40
APR 15,81	APR 14,81		290.	23.4	*****	4.46	*****	3.15	0.43
APR 16,81	APR 15,81		*****	*****	4.21	*****	0.101	*****	*****
APR 17,81	APR 16,81		1664.	39.7	6.30	4.19	0.024	4.25	0.97
APR 23,81	APR 22,81		1302.	21.4	4.09	6.72	0.126	3.80	0.64
APR 24,81	APR 23,81		1019.	48.5	*****	4.11	*****	5.15	1.17
APR 25,81	APR 24,81		93.	*****	6.99	5.51	0.082	2.70	0.39
APR 28,81	APR 27,81		1313.	65.5	3.82	7.50	0.199	4.60	0.24
APR 29,81	APR 28,81		843.	75.5	6.03	3.78	0.031	5.55	1.87
NOV 17,81	NOV 16,81		725.	5.6	*****	6.10	*****	0.50	0.02
NOV 19,81	NOV 18,81	U	106.	*****	4.23	5.78	0.094	3.20	0.72
NOV 20,81	NOV 19,81		2043.	30.8	4.51	4.24	0.065	2.95	0.44
NOV 21,81	NOV 20,81		2025.	16.8	*****	4.47	*****	1.10	0.39
NOV 22,81	NOV 21,81		114.	*****	4.26	6.20	0.085	1.60	0.11
NOV 27,81	NOV 26,81		1493.	33.4	*****	4.33	*****	4.25	0.56
NOV 29,81	NOV 28,81		20.	*****		6.91		*****	*****

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NORTH EASTHOPE/DAILY/SES #03

SAMPLE DATE	INITIAL DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
MAR 9,81	MAR 8,81	*****	0.15	*****	*****	*****	0.560
MAR 10,81	MAR 9,81	1.33	0.46	0.270	0.090	0.210	2.300
MAR 11,81	MAR 10,81	0.13	0.20	0.035	0.020	0.050	1.260
MAR 12,81	MAR 11,81	0.51	0.33	0.110	0.170	0.280	0.870
MAR 14,81	MAR 13,81	*****	*****	*****	*****	*****	*****
MAR 16,81	MAR 15,81	*****	*****	*****	*****	*****	*****
MAR 17,81	MAR 16,81	2.20	0.17	0.510	0.020	0.070	0.264
MAR 18,81	MAR 17,81	*****	0.26	*****	*****	*****	0.282
MAR 19,81	MAR 18,81	0.70	0.34	0.175	0.050	0.190	0.410
MAR 20,81	MAR 19,81	1.65	0.34	0.430	0.040	0.220	0.600
MAR 21,81	MAR 20,81	0.13	0.10	0.040	0.020	0.070	0.730
MAR 25,81	MAR 24,81	*****	1.08	*****	*****	*****	*****
MAR 27,81	MAR 26,81	0.74	0.21	0.115	0.030	0.070	0.610
MAR 28,81	MAR 27,81	*****	*****	*****	*****	*****	*****
MAR 30,81	MAR 29,81	0.61	0.15	0.120	0.040	0.130	0.700
MAR 31,81	MAR 30,81	0.30	0.08	0.040	0.030	0.040	0.480
APR 1,81	MAR 31,81	*****	*****	*****	*****	*****	*****
APR 2,81	APR 1,81	*****	0.73	*****	*****	*****	1.970
APR 4,81	APR 3,81	2.95	0.60	0.405	0.220	0.370	1.310
APR 5,81	APR 4,81	*****	*****	*****	*****	*****	1.350
APR 6,81	APR 5,81	*****	*****	*****	*****	*****	0.900
APR 9,81	APR 8,81	8.80	1.31	1.150	0.380	0.810	2.100
APR 11,81	APR 10,81	0.57	0.12	0.065	0.040	0.140	0.400
APR 13,81	APR 12,81	1.96	0.22	0.440	0.240	0.180	1.580
APR 14,81	APR 13,81	0.13	0.13	0.030	0.040	0.100	0.300
APR 15,81	APR 14,81	0.24	0.14	0.070	0.040	0.070	0.600
APR 16,81	APR 15,81	*****	*****	*****	*****	*****	*****
APR 17,81	APR 16,81	0.78	0.23	0.150	0.040	0.110	0.620
APR 23,81	APR 22,81	2.80	0.23	0.650	0.040	0.080	0.278
APR 24,81	APR 23,81	0.53	0.24	0.085	0.050	0.060	1.200
APR 25,81	APR 24,81	*****	0.19	*****	*****	*****	0.590
APR 28,81	APR 27,81	0.92	0.86	0.200	1.750	0.700	6.000
APR 29,81	APR 28,81	0.43	0.26	0.065	0.050	0.090	1.120
NOV 17,81	NOV 16,81	0.11	0.12	0.025	0.010	0.020	0.396
NOV 19,81	NOV 18,81	1.09	0.18	0.145	0.060	0.050	1.390
NOV 20,81	NOV 19,81	0.26	0.18	0.025	0.010	0.080	0.372
NOV 21,81	NOV 20,81	0.03	0.03	< 0.005	0.010	0.010	0.246
NOV 22,81	NOV 21,81	*****	0.14	*****	*****	*****	0.300
NOV 27,81	NOV 26,81	0.91	0.38	0.180	0.020	0.280	0.420
NOV 29,81	NOV 28,81	*****	*****	*****	*****	*****	*****

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NORTH EASTHOPE/DAILY/SES #03

SAMPLE DATE	INITIAL DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
NOV 30,81	NOV 29,81	800	800	****	****	1	****	2	18386	2	1	****	C	
DEC 1,81	NOV 30,81	800	800	2000	800	3	4.0	2	18387	2	1	112	C	
DEC 2,81	DEC 1,81	800	800	****	****	1	6.8	2	18388	2	1	127	C	N
DEC 3,81	DEC 2,81	800	800	****	****	1	****	2	18389	2	1	****	D	
DEC 10,81	DEC 9,81	800	800	****	****	2	****	2	18393	2	1	****		
DEC 11,81	DEC 10,81	800	800	800	1600	2	****	2	18394	2	1	****	C	
DEC 12,81	DEC 11,81	800	800	****	****	2	****	2	18395	2	1	****	C	F
DEC 15,81	DEC 14,81	800	800	****	****	2	0.6	2	18396	2	1	80	D	
DEC 16,81	DEC 15,81	800	800	****	****	2	****	2	18397	2	1	****	E	
DEC 17,81	DEC 16,81	800	800	****	****	2	1.0	2	18398	2	1	76	C	M
DEC 19,81	DEC 18,81	800	800	****	****	2	2.6	2	18399	2	1	64	C	M
DEC 21,81	DEC 20,81	800	800	****	****	2	****	*	18400	2	1	****	C	
DEC 23,81	DEC 22,81	800	800	****	****	2	16.2	2	18401	2	1	41		N
DEC 28,81	DEC 27,81	800	800	****	****	2	1.4	2	18402	2	1	92	C	
DEC 29,81	DEC 28,81	800	800	****	****	2	3.2	2	18403	2	1	81	C	
JAN 1,82	DEC 31,81	800	900	****	****	3	2.6	2	18404	2	1	231	C	N

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NORTH EASTHOPE/DAILY/SES #03

SAMPLE DATE	INITIAL DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ MG/L	SULPHATE MG/L	NITRATE AS N MG/L
NOV 30,81	NOV 29,81	34.	*****	*****	4.92	*****	*****	*****
DEC 1,81	NOV 30,81	739.	7.8	*****	5.08	0.055	1.00	0.10
DEC 2,81	DEC 1,81	1418.	26.1	4.17	4.27	0.089	1.65	0.51
DEC 3,81	DEC 2,81	36.	*****	*****	4.31	*****	*****	*****
DEC 10,81	DEC 9,81	5.	*****	*****	*****	*****	*****	*****
DEC 11,81	DEC 10,81	19.	*****	*****	*****	*****	*****	*****
DEC 12,81	DEC 11,81	27.	*****	*****	8.20	*****	*****	*****
DEC 15,81	DEC 14,81	79.	*****	*****	5.45	*****	5.65	2.04
DEC 16,81	DEC 15,81	5.	*****	*****	*****	*****	*****	*****
DEC 17,81	DEC 16,81	126.	38.0	*****	7.46	*****	1.20	0.32
DEC 19,81	DEC 18,81	274.	17.0	*****	6.92	0.038	0.65	0.05
DEC 21,81	DEC 20,81	584.	8.5	*****	5.56	0.058	1.00	0.35
DEC 23,81	DEC 22,81	U 1103.	8.1	*****	4.78	0.057	0.60	0.13
DEC 28,81	DEC 27,81	212.	*****	*****	4.42	*****	1.95	0.78
DEC 29,81	DEC 28,81	429.	15.3	*****	4.56	0.072	0.70	0.46
JAN 1,82	DEC 31,81	986.	28.0	*****	4.36	0.094	2.75	0.67

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NORTH EASTHOPE/DAILY/SES #03

SAMPLE DATE	INITIAL DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
NOV 30,81	NOV 29,81	*****	*****	*****	*****	*****	*****
DEC 1,81	NOV 30,81	0.27	0.03	0.050	0.010	0.040	0.128
DEC 2,81	DEC 1,81	0.13	0.06	0.005	0.010	0.020	0.268
DEC 3,81	DEC 2,81	*****	*****	*****	*****	*****	*****
DEC 10,81	DEC 9,81	*****	*****	*****	*****	*****	*****
DEC 11,81	DEC 10,81	*****	*****	*****	*****	*****	*****
DEC 12,81	DEC 11,81	*****	*****	*****	*****	*****	*****
DEC 15,81	DEC 14,81	*****	1.35	*****	*****	*****	1.690
DEC 16,81	DEC 15,81	*****	*****	*****	*****	*****	*****
DEC 17,81	DEC 16,81	5.60	0.48	0.900	0.070	0.230	0.490
DEC 19,81	DEC 18,81	1.76	0.30	0.380	0.050	0.170	0.192
DEC 21,81	DEC 20,81	0.63	0.24	0.110	0.070	0.120	0.014
DEC 23,81	DEC 22,81	0.05	0.11	< 0.005	0.030	0.030	0.080
DEC 28,81	DEC 27,81	0.86	0.68	0.090	0.070	0.100	0.184
DEC 29,81	DEC 28,81	0.08	0.20	0.010	0.030	0.060	0.268
JAN 1,82	DEC 31,81	0.50	0.39	0.060	0.060	0.220	0.400

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WELLESLEY/DAILY/AEROCHEM #04

SAMPLE DATE	INITIAL DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
MAY 8,81	MAY 7,81	1100	1430	1345	1445	1	0.6	2	18603	2	1	709		N
MAY 9,81	MAY 8,81	1430	1215	****	****	1	0.2	1	18604	2	1	327		
MAY 11,81	MAY 10,81	715	530	2300	300	1	18.4	1	18605	2	1	95		
MAY 12,81	MAY 11,81	530	530	****	****	1	3.3	1	18606	2	1	73		
MAY 15,81	MAY 13,81	530	530	1400	1700	1	3.3	1	18607	2	1	77	C	
MAY 16,81	MAY 15,81	530	900	****	****	1	6.3	1	18608	2	1	107		
MAY 26,81	MAY 24,81	500	500	530	630	1	2.0	1	18609	2	1	76	AC	
MAY 27,81	MAY 26,81	500	500	530	700	1	3.8	1	18610	2	1	94	C	
MAY 28,81	MAY 27,81	500	530	1000	1400	1	3.7	1	18611	2	1	74		
MAY 30,81	MAY 28,81	530	800	600	700	1	0.4	1	18612	2	1	****	E	
MAY 31,81	MAY 30,81	800	800	800	1000	1	0.6	1	18613	2	1	88	C	
JUN 3,81	JUN 2,81	530	530	230	400	1	5.9	1	18614	2	1	106	AC	
JUN 9,81	JUN 3,81	530	530	****	****	1	0.4	1	18615	2	1	163		
JUN 9,81	JUN 8,81	530	530	****	****	1	1.4	1	18616	2	1	81	A	
JUN 11,81	JUN 10,81	530	530	****	****	1	****	1	18617	2	1	****		
JUN 14,81	JUN 13,81	800	730	****	****	1	12.4	1	18618	2	1	98		
JUN 17,81	JUN 16,81	530	530	1530	1630	1	6.4	1	18619	2	1	91	A	
JUN 21,81	JUN 20,81	1130	1130	****	****	1	13.2	1	18620	2	1	100	C	
JUN 22,81	JUN 21,81	1130	530	****	****	1	21.5	1	18621	2	1	101	AC	
JUN 23,81	JUN 22,81	530	530	530	800	1	5.4	1	18622	2	1	82		
JUL 1,81	JUN 30,81	530	800	****	****	1	2.5	1	18623	2	1	88		
JUL 9,81	JUL 5,81	800	1030	****	****	1	4.2	1	18624	2	1	****	E	
JUL 18,81	JUL 17,81	530	830	****	****	1	2.1	1	18625	2	1	84	C	
JUL 19,81	JUL 18,81	830	830	****	****	1	10.1	1	18626	2	1	95		
JUL 20,81	JUL 19,81	830	530	****	****	1	1.6	1	18627	2	1	39		
JUL 26,81	JUL 25,81	800	1030	430	1030	1	1.1	1	18628	2	1	66		
JUL 27,81	JUL 26,81	1030	530	****	****	1	3.8	1	18629	2	1	90		
JUL 28,81	JUL 27,81	530	530	****	****	1	0.6	1	18630	2	1	127		
JUL 29,81	JUL 28,81	530	530	530	2000	1	37.5	1	18631	2	1	101		
AUG 3,81	AUG 2,81	800	900	530	900	1	2.4	1	18632	2	1	74		
AUG 5,81	AUG 4,81	530	530	1300	2000	1	18.6	1	18633	2	1	106		
AUG 9,81	AUG 8,81	530	800	****	****	1	2.0	1	18634	2	1	170	L	N
AUG 12,81	AUG 11,81	530	530	1400	530	1	2.6	1	18635	2	1	78		
AUG 15,81	AUG 14,81	530	745	****	****	1	11.6	1	18636	2	1	88	C	
AUG 16,81	AUG 15,81	745	800	****	****	1	5.4	1	18637	2	1	88	C	
AUG 28,81	AUG 27,81	530	530	****	****	1	7.1	1	18638	2	1	90		
AUG 29,81	AUG 28,81	530	1100	****	****	1	9.8	1	18639	2	1	91	C	
AUG 30,81	AUG 29,81	1100	1230	****	****	1	27.0	1	18640	2	1	94	AC	
AUG 31,81	AUG 30,81	1230	530	****	****	1	52.7	1	18641	2	1	103	A	
SEP 2,81	SEP 1,81	530	530	1830	200	1	24.5	1	18642	2	1	90	C	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WELLESLEY/DAILY/AEROCHEM #04

SAMPLE DATE	INITIAL DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ MG/L	SULPHATE MG/L	NITRATE AS N MG/L
MAY 8,81	MAY 7,81	273.	81.5	*****	3.83	0.203	9.25	1.00
MAY 9,81	MAY 8,81	42.	*****	*****	4.04	*****	*****	*****
MAY 11,81	MAY 10,81	1130.	49.0	4.00	4.03	0.130	4.55	0.63
MAY 12,81	MAY 11,81	156.	*****	*****	4.04	*****	4.55	0.57
MAY 15,81	MAY 13,81	163.	*****	*****	5.27	*****	3.60	0.48
MAY 16,81	MAY 15,81	435.	75.5	3.79	3.86	0.195	7.60	0.92
MAY 26,81	MAY 24,81	98.	*****	*****	6.35	*****	7.00	1.25
MAY 27,81	MAY 26,81	230.	*****	*****	4.50	0.072	5.00	1.35
MAY 28,81	MAY 27,81	177.	*****	*****	3.92	*****	8.95	1.34
MAY 30,81	MAY 28,81	*****	*****	*****	*****	*****	*****	*****
MAY 31,81	MAY 30,81	34.	*****	*****	4.46	*****	7.80	1.34
JUN 3,81	JUN 2,81	403.	78.5	*****	3.77	0.208	8.40	1.03
JUN 9,81	JUN 3,81	42.	*****	*****	4.50	*****	6.45	0.78
JUN 9,81	JUN 8,81	73.	*****	*****	6.56	*****	1.25	0.22
JUN 11,81	JUN 10,81	115.	*****	*****	4.08	*****	5.25	1.09
JUN 14,81	JUN 13,81	779.	18.8	*****	4.37	0.070	2.10	0.18
JUN 17,81	JUN 16,81	377.	26.5	*****	4.36	0.076	3.25	0.62
JUN 21,81	JUN 20,81	851.	34.5	*****	4.14	0.103	3.80	0.47
JUN 22,81	JUN 21,81	1392.	20.4	*****	4.42	0.066	2.10	0.39
JUN 23,81	JUN 22,81	286.	22.5	*****	4.35	0.071	2.45	0.31
JUL 1,81	JUN 30,81	142.	*****	*****	4.44	*****	2.30	0.36
JUL 9,81	JUL 5,81	*****	*****	*****	*****	*****	*****	*****
JUL 18,81	JUL 17,81	114.	*****	*****	6.19	*****	5.15	0.98
JUL 19,81	JUL 18,81	618.	75.0	*****	3.87	0.175	7.80	1.05
JUL 20,81	JUL 19,81	41.	*****	*****	3.97	*****	4.35	0.32
JUL 26,81	JUL 25,81	47.	*****	*****	3.63	*****	10.20	1.05
JUL 27,81	JUL 26,81	220.	*****	*****	3.56	*****	13.50	0.63
JUL 28,81	JUL 27,81	49.	*****	*****	4.06	*****	4.25	0.42
JUL 29,81	JUL 28,81	2446.	U 15.0	*****	4.16	0.096	2.65	0.24
AUG 3,81	AUG 2,81	115.	*****	*****	4.09	*****	3.65	0.70
AUG 5,81	AUG 4,81	1268.	43.6	*****	4.12	0.112	5.35	0.70
AUG 9,81	AUG 8,81	218.	*****	*****	4.77	0.048	1.90	0.37
AUG 12,81	AUG 11,81	131.	*****	*****	4.02	*****	6.30	0.75
AUG 15,81	AUG 14,81	660.	61.5	*****	3.92	0.160	5.90	0.72
AUG 16,81	AUG 15,81	307.	71.0	*****	3.83	0.180	6.95	0.80
AUG 28,81	AUG 27,81	410.	124.0	*****	3.58	0.309	12.50	1.15
AUG 29,81	AUG 28,81	575.	111.0	*****	3.63	0.289	9.95	1.19
AUG 30,81	AUG 29,81	1633.	50.0	*****	4.01	0.129	4.95	0.46
AUG 31,81	AUG 30,81	3496.	20.2	*****	4.46	0.062	2.15	0.19
SEP 2,81	SEP 1,81	1421.	47.0	3.99	3.95	0.130	4.60	0.47

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WELLESLEY/DAILY/AEROCHEM #04

SAMPLE DATE	INITIAL DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
MAY 8,81	MAY 7,81	0.40	0.22	0.055	0.030	0.100	1.200
MAY 9,81	MAY 8,81	*****	*****	*****	*****	*****	*****
MAY 11,81	MAY 10,81	0.15	0.25	0.350	0.020	0.110	0.500
MAY 12,81	MAY 11,81	0.14	0.99	0.030	0.050	0.140	0.780
MAY 15,81	MAY 13,81	0.67	0.25	0.225	0.040	0.090	0.870
MAY 16,81	MAY 15,81	0.17	0.23	0.040	0.030	0.040	0.820
MAY 26,81	MAY 24,81	*****	0.28	*****	*****	*****	2.000
MAY 27,81	MAY 26,81	1.11	0.26	0.260	0.040	0.030	1.370
MAY 28,81	MAY 27,81	0.71	0.32	0.170	0.040	0.040	1.560
MAY 30,81	MAY 28,81	*****	*****	*****	*****	*****	*****
MAY 31,81	MAY 30,81	*****	0.37	*****	*****	*****	*****
JUN 3,81	JUN 2,81	0.46	0.24	0.140	0.030	0.040	0.740
JUN 9,81	JUN 3,81	*****	0.29	*****	*****	*****	*****
JUN 9,81	JUN 8,81	*****	0.13	*****	*****	*****	0.650
JUN 11,81	JUN 10,81	0.32	0.22	0.080	*****	0.100	1.260
JUN 14,81	JUN 13,81	0.10	0.02	0.030	0.010	0.010	0.130
JUN 17,81	JUN 16,81	0.61	0.25	0.120	0.050	0.110	0.500
JUN 21,81	JUN 20,81	0.24	0.04	0.065	0.020	0.020	0.440
JUN 22,81	JUN 21,81	0.08	0.05	0.010	< 0.010	0.010	0.380
JUN 23,81	JUN 22,81	0.07	0.02	0.025	0.010	0.020	0.410
JUL 1,81	JUN 30,81	0.08	0.09	0.040	0.030	0.020	0.420
JUL 9,81	JUL 5,81	*****	*****	*****	*****	*****	*****
JUL 18,81	JUL 17,81	2.20	0.33	0.475	0.090	0.110	0.630
JUL 19,81	JUL 18,81	0.65	0.20	0.155	0.040	0.050	0.970
JUL 20,81	JUL 19,81	*****	0.10	*****	*****	*****	*****
JUL 26,81	JUL 25,81	*****	0.26	*****	*****	*****	*****
JUL 27,81	JUL 26,81	0.12	0.14	0.020	0.020	0.030	1.060
JUL 28,81	JUL 27,81	*****	0.15	*****	*****	*****	*****
JUL 29,81	JUL 28,81	0.03	0.06	0.005	< 0.010	0.010	0.150
AUG 3,81	AUG 2,81	0.60	0.32	0.080	0.030	0.260	0.232
AUG 5,81	AUG 4,81	0.64	0.19	0.105	0.030	0.020	0.760
AUG 9,81	AUG 8,81	0.22	0.10	0.050	0.020	0.010	0.540
AUG 12,81	AUG 11,81	0.58	0.26	0.130	0.060	0.060	0.710
AUG 15,81	AUG 14,81	0.34	0.16	0.060	0.030	0.010	0.420
AUG 16,81	AUG 15,81	0.22	0.19	0.025	0.040	0.010	0.640
AUG 28,81	AUG 27,81	0.24	0.31	0.035	0.040	0.030	0.880
AUG 29,81	AUG 28,81	0.28	0.30	0.035	0.020	0.030	0.530
AUG 30,81	AUG 29,81	0.16	0.15	0.020	0.020	0.010	0.430
AUG 31,81	AUG 30,81	0.07	0.08	0.010	0.030	0.010	0.328
SEP 2,81	SEP 1,81	0.16	0.10	0.025	0.020	0.020	0.252

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WELLESLEY/DAILY/AEROCHEM #04 PAGE : 4

SAMPLE DATE	INITIAL DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
SEP 4,81	SEP 3,81	530	530	700	530	1	57.2	1	18643	2	1	104	C	
SEP 5,81	SEP 4,81	530	530	****	****	1	7.4	1	18644	2	1	64	C	
SEP 9,81	SEP 8,81	530	530	2400	200	1	0.9	1	18645	2	1	62		
SEP 17,81	SEP 16,81	530	530	100	400	1	2.3	1	18646	2	1	65		
SEP 18,81	SEP 17,81	530	530	****	****	1	6.4	1	18647	2	1	88		
SEP 22,81	SEP 21,81	530	530	1400	2000	1	17.0	1	18648	2	1	99		
SEP 26,81	SEP 25,81	530	730	2200	730	1	4.1	1	18649	2	1	71		
SEP 27,81	SEP 26,81	730	630	730	2300	1	3.1	1	18650	2	1	89		
SEP 28,81	SEP 27,81	630	****	****	****	1	0.6	1	18651	2	1	****	CE	
OCT 1,81	SEP 30,81	530	****	****	****	1	6.2	1	18652	2	1	29	C	N
OCT 2,81	OCT 1,81	530	530	****	****	1	20.4	1	18653	2	1	101		
OCT 6,81	OCT 5,81	530	630	430	630	1	8.4	1	18654	2	1	97		
OCT 7,81	OCT 6,81	630	530	630	1100	1	8.1	1	18655	2	1	66	A	
OCT 14,81	OCT 13,81	430	530	****	****	1	4.8	1	18656	2	1	****	EF	
OCT 18,81	OCT 17,81	530	830	30	630	1	15.7	1	18657	2	1	80		
OCT 19,81	OCT 18,81	830	530	1500	530	3	7.4	1	18658	2	1	62	D	
OCT 20,81	OCT 19,81	530	530	****	****	3	2.2	1	18659	2	1	24		
OCT 21,81	OCT 20,81	530	530	300	530	1	0.5	1	18660	2	1	112		
OCT 22,81	OCT 21,81	530	530	****	****	3	12.1	1	18661	2	1	86	C	
OCT 23,81	OCT 22,81	530	530	1000	2400	3	14.6	1	18662	2	1	100	C	
OCT 24,81	OCT 23,81	530	730	****	****	3	2.9	1	18663	2	1	45	C	N
OCT 28,81	OCT 27,81	530	530	530	1800	1	21.4	1	18664	2	1	99		
NOV 6,81	NOV 5,81	530	530	2300	400	1	2.8	1	18665	2	1	52	C	
NOV 17,81	NOV 16,81	530	530	1700	100	1	2.6	1	18666	2	1	98		M
NOV 20,81	NOV 19,81	530	530	700	400	1	13.6	1	18667	2	1	100		
NOV 22,81	NOV 21,81	530	530	****	****	1	9.5	1	18668	2	1	85		
NOV 27,81	NOV 26,81	530	530	****	****	1	8.3	1	18669	2	1	95	C	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WELLESLEY/DAILY/AEROCHEM #04

SAMPLE DATE	INITIAL DATE		VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ MG/L	SULPHATE MG/L	NITRATE AS N MG/L
SEP 4,81	SEP 3,81		3837.	25.0	4.27	4.24	0.079	1.95	0.28
SEP 5,81	SEP 4,81		304.	25.7	4.28	4.20	0.090	2.85	0.28
SEP 9,81	SEP 8,81		36.	*****	*****	4.16	*****	4.90	0.68
SEP 17,81	SEP 16,81		96.	*****	*****	5.20	*****	1.10	0.23
SEP 18,81	SEP 17,81		364.	26.2	4.16	4.22	0.087	2.65	0.27
SEP 22,81	SEP 21,81		1086.	16.7	4.40	4.56	0.055	1.80	0.24
SEP 26,81	SEP 25,81		189.	*****	*****	4.01	*****	7.05	0.90
SEP 27,81	SEP 26,81		177.	*****	*****	3.96	*****	6.15	0.76
SEP 28,81	SEP 27,81		*****	*****	*****	*****	*****	*****	*****
OCT 1,81	SEP 30,81	U	117.	*****	*****	4.40	*****	1.85	0.15
OCT 2,81	OCT 1,81		1333.	18.8	3.99	4.52	0.063	1.85	0.14
OCT 6,81	OCT 5,81		526.	45.4	4.35	4.11	0.116	4.05	0.66
OCT 7,81	OCT 6,81		346.	31.1	*****	4.17	0.095	2.50	0.62
OCT 14,81	OCT 13,81		*****	*****	*****	*****	*****	*****	*****
OCT 18,81	OCT 17,81		812.	21.2	4.36	4.30	0.075	1.70	0.24
OCT 19,81	OCT 18,81		295.	4.8	*****	5.74	0.029	0.60	0.05
OCT 20,81	OCT 19,81		34.	*****	*****	5.52	*****	*****	*****
OCT 21,81	OCT 20,81		36.	*****	*****	4.19	*****	*****	*****
OCT 22,81	OCT 21,81		670.	31.8	4.19	4.23	0.091	2.80	0.52
OCT 23,81	OCT 22,81		936.	16.0	4.54	4.45	0.064	1.35	0.22
OCT 24,81	OCT 23,81	U	85.	*****	*****	4.03	*****	*****	*****
OCT 28,81	OCT 27,81		1367.	10.4	4.71	4.73	0.044	1.15	0.08
NOV 6,81	NOV 5,81		95.	*****	*****	4.18	*****	3.40	1.20
NOV 17,81	NOV 16,81		165.	*****	*****	5.94	*****	0.20	0.01
NOV 20,81	NOV 19,81		877.	25.6	*****	4.30	0.086	2.25	0.36
NOV 22,81	NOV 21,81		520.	19.8	*****	4.42	0.076	1.50	0.42
NOV 27,81	NOV 26,81		508.	30.5	*****	4.25	0.087	3.50	0.36

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WELLESLEY/DAILY/AEROCHEM #04

SAMPLE DATE	INITIAL DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
SEP 4,81	SEP 3,81	0.05	0.06	< 0.005	0.020	0.020	0.132
SEP 5,81	SEP 4,81	0.14	0.19	0.005	0.040	0.240	0.068
SEP 9,81	SEP 8,81	*****	0.26	*****	*****	*****	*****
SEP 17,81	SEP 16,81	0.37	0.04	0.060	0.010	0.010	0.280
SEP 18,81	SEP 17,81	0.12	0.01	0.025	0.020	0.010	0.298
SEP 22,81	SEP 21,81	0.05	0.01	0.020	0.010	0.010	0.388
SEP 26,81	SEP 25,81	0.70	0.18	0.110	0.020	0.050	0.960
SEP 27,81	SEP 26,81	0.77	0.20	0.075	0.030	0.080	0.278
SEP 28,81	SEP 27,81	*****	*****	*****	*****	*****	*****
OCT 1,81	SEP 30,81	0.07	< 0.01	0.015	< 0.010	0.020	0.046
OCT 2,81	OCT 1,81	0.04	< 0.01	< 0.005	0.010	0.020	0.122
OCT 6,81	OCT 5,81	0.22	0.12	0.040	0.020	0.050	0.640
OCT 7,81	OCT 6,81	0.10	0.08	0.010	0.010	0.020	0.520
OCT 14,81	OCT 13,81	*****	*****	*****	*****	*****	*****
OCT 18,81	OCT 17,81	0.08	0.03	0.005	< 0.010	0.010	0.124
OCT 19,81	OCT 18,81	0.09	< 0.01	0.015	0.010	< 0.010	0.226
OCT 20,81	OCT 19,81	*****	*****	*****	*****	*****	*****
OCT 21,81	OCT 20,81	*****	*****	*****	*****	*****	*****
OCT 22,81	OCT 21,81	0.10	0.08	0.025	0.020	0.020	0.450
OCT 23,81	OCT 22,81	0.08	0.87	0.025	0.020	0.040	0.148
OCT 24,81	OCT 23,81	*****	*****	*****	*****	*****	0.248
OCT 28,81	OCT 27,81	0.04	< 0.01	0.020	0.010	< 0.010	0.128
NOV 6,81	NOV 5,81	*****	0.28	*****	*****	*****	0.970
NOV 17,81	NOV 16,81	0.09	< 0.01	0.010	0.010	0.050	0.150
NOV 20,81	NOV 19,81	0.13	0.05	0.010	0.010	0.040	0.326
NOV 22,81	NOV 21,81	0.10	0.03	0.005	0.010	0.040	0.268
NOV 27,81	NOV 26,81	0.26	0.20	0.035	0.020	0.160	0.300

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WELLESLEY/DAILY/SES #04 PAGE : 1

SAMPLE DATE	INITIAL DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
JAN 28.81	JAN 27.81	1945	1730	1530	1700	2	****	*	328	2	1	****		L
JAN 29.81	JAN 28.81	1730	1730	****	****	2	****	*	329	2	1	****		L
FEB 1.81	JAN 31.81	1700	1600	600	1430	2	****	*	330	2	1	****		X
FEB 2.81	FEB 1.81	1600	1600	****	****	2	****	*	331	2	1	****		X
FEB 3.81	FEB 2.81	1600	1700	****	****	2	****	*	1736	2	1	****	CD	
FEB 4.81	FEB 3.81	1700	1715	****	****	2	****	*	2481	2	1	****	CE	
FEB 6.81	FEB 5.81	1600	1600	****	****	2	****	*	2148	2	1	****	G	X
FEB 8.81	FEB 7.81	1600	1800	****	****	2	****	*	2482	2	1	****	CE	
FEB 9.81	FEB 8.81	1800	1700	****	****	2	****	*	1737	2	1	****	C	
FEB 10.81	FEB 9.81	1700	1730	1030	1730	2	****	*	1738	2	1	****	C	
FEB 11.81	FEB 10.81	1730	1700	1730	****	3	****	*	1739	2	1	****	CD	
FEB 12.81	FEB 11.81	1700	1700	****	****	2	****	*	1740	2	1	****	CD	
FEB 16.81	FEB 15.81	1230	1600	1100	1500	1	****	*	1741	2	1	****		
FEB 18.81	FEB 17.81	1700	1700	****	****	1	****	*	2146	2	1	****	C	
FEB 20.81	FEB 19.81	1700	1700	****	****	1	****	*	1742	2	1	****	C	
FEB 23.81	FEB 22.81	1300	1530	330	1500	1	****	*	1743	2	1	****		
FEB 24.81	FEB 23.81	1530	1700	700	****	1	****	*	1744	2	1	****		
FEB 25.81	FEB 24.81	1750	1700	****	****	1	****	*	1745	2	1	****	C	
FEB 28.81	FEB 27.81	1630	1600	215	530	1	10.0	1	1746	2	1	100	C	
MAR 1.81	FEB 28.81	1600	1400	****	****	2	****	*	2483	2	1	****	CDE	
MAR 2.81	MAR 1.81	1400	1700	****	****	2	0.8	1	1747	2	1	80		
MAR 3.81	MAR 2.81	1700	1700	****	****	2	0.3	2	2484	2	1	42	E	
MAR 4.81	MAR 3.81	1700	1700	200	****	2	0.7	1	1748	2	1	69		
MAR 9.81	MAR 8.81	1230	1630	****	500	2	0.4	1	1749	2	1	96	D	
MAR 11.81	MAR 10.81	1700	1730	200	800	2	4.4	2	1750	2	1	64		M
MAR 17.81	MAR 16.81	1700	1700	****	****	2	2.2	2	1751	2	1	40	CD	N
MAR 18.81	MAR 17.81	1700	1730	****	****	2	1.2	2	1752	2	1	22		
MAR 20.81	MAR 19.81	1400	1600	1700	100	2	5.2	2	1753	2	1	51		
MAR 26.81	MAR 25.81	1700	1700	1300	1600	3	5.8	2	1754	2	1	106		
MAR 27.81	MAR 26.81	1700	900	1800	300	1	2.6	2	1755	2	1	110	C	
MAR 30.81	MAR 29.81	1200	1630	100	1030	1	17.8	2	1756	2	1	99	AC	
MAR 31.81	MAR 30.81	1700	1700	1900	****	1	0.6	2	1757	2	1	65		
APR 1.81	MAR 31.81	1700	1700	****	300	1	****	*	1758	2	1	****	C	
APR 4.81	APR 3.81	1700	1630	****	****	1	1.6	2	2324	2	1	229	C	N
APR 9.81	APR 8.81	1700	1400	100	700	1	1.5	2	1759	2	1	131	AC	NF
APR 11.81	APR 10.81	1700	1600	****	****	1	****	*	2323	2	1	****		
APR 12.81	APR 11.81	1600	1100	****	1100	3	****	*	1760	2	1	****	AC	E
APR 14.81	APR 13.81	1600	1800	****	****	1	16.6	2	2030	2	1	106		
APR 17.81	APR 15.81	1700	1630	2000	800	1	9.2	2	2031	2	1	106	A	
APR 18.81	APR 17.81	1630	1800	100	500	1	2.2	2	2032	2	1	147		N

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WELLESLEY/DAILY/SES #04 PAGE : 2

SAMPLE DATE	INITIAL DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ MG/L	SULPHATE MG/L	NITRATE AS N MG/L
JAN 28,81	JAN 27,81	181.	22.7	*****	4.79	*****	2.20	0.93
JAN 29,81	JAN 28,81	67.	*****	*****	4.51	*****	2.50	2.30
FEB 1,81	JAN 31,81	447.	*****	4.80	*****	*****	*****	*****
FEB 2,81	FEB 1,81	690.	*****	4.27	*****	*****	*****	*****
FEB 3,81	FEB 2,81	75.	*****	*****	4.83	*****	1.55	0.76
FEB 4,81	FEB 3,81	39.	*****	*****	*****	*****	*****	*****
FEB 6,81	FEB 5,81	*****	*****	*****	*****	*****	*****	*****
FEB 8,81	FEB 7,81	28.	*****	*****	*****	*****	*****	*****
FEB 9,81	FEB 8,81	49.	*****	*****	4.40	*****	3.10	1.52
FEB 10,81	FEB 9,81	961.	11.8	4.71	4.70	0.046	0.75	0.30
FEB 11,81	FEB 10,81	3066.	24.8	4.30	4.29	0.082	1.85	0.44
FEB 12,81	FEB 11,81	48.	*****	*****	7.13	*****	2.65	0.90
FEB 16,81	FEB 15,81	393.	38.3	4.29	4.25	0.096	4.70	0.74
FEB 18,81	FEB 17,81	12.	*****	*****	*****	*****	*****	*****
FEB 20,81	FEB 19,81	220.	106.0	*****	4.07	*****	17.00	3.00
FEB 23,81	FEB 22,81	3195.	23.9	4.21	4.40	0.071	2.30	0.36
FEB 24,81	FEB 23,81	202.	31.2	*****	4.39	*****	3.90	0.86
FEB 25,81	FEB 24,81	342.	41.5	*****	4.39	0.086	5.35	1.31
FEB 28,81	FEB 27,81	1650.	40.0	3.85	4.19	0.105	4.55	0.70
MAR 1,81	FEB 28,81	28.	*****	*****	*****	*****	*****	*****
MAR 2,81	MAR 1,81	106.	*****	*****	7.26	*****	7.10	1.21
MAR 3,81	MAR 2,81	21.	*****	*****	*****	*****	*****	*****
MAR 4,81	MAR 3,81	80.	*****	*****	7.08	*****	7.15	1.70
MAR 9,81	MAR 8,81	63.	*****	*****	7.16	*****	5.15	0.85
MAR 11,81	MAR 10,81	465.	27.5	5.48	5.98	0.038	3.45	1.38
MAR 17,81	MAR 16,81	U 146.	*****	*****	7.36	*****	0.85	0.62
MAR 18,81	MAR 17,81	44.	*****	*****	7.31	*****	1.90	0.42
MAR 20,81	MAR 19,81	441.	17.5	4.77	4.88	0.046	2.90	0.29
MAR 26,81	MAR 25,81	1016.	27.8	4.63	4.61	0.066	3.30	0.91
MAR 27,81	MAR 26,81	470.	50.0	4.04	4.06	0.126	3.00	1.51
MAR 30,81	MAR 29,81	2889.	19.5	4.57	4.71	0.052	2.80	0.32
MAR 31,81	MAR 30,81	64.	*****	*****	6.48	*****	6.95	1.09
APR 1,81	MAR 31,81	83.	*****	*****	6.95	*****	13.80	2.70
APR 4,81	APR 3,81	603.	38.7	4.70	5.58	0.053	9.10	1.08
APR 9,81	APR 8,81	324.	49.5	*****	6.96	0.043	9.10	1.52
APR 11,81	APR 10,81	399.	12.5	4.72	4.94	0.043	2.15	0.46
APR 12,81	APR 11,81	18.	*****	*****	U 7.30	*****	*****	*****
APR 14,81	APR 13,81	2910.	29.2	4.25	4.28	0.085	2.95	0.41
APR 17,81	APR 15,81	1613.	22.0	5.06	5.87	0.031	4.05	0.81
APR 18,81	APR 17,81	532.	25.5	*****	5.21	0.048	4.15	0.96

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WELLESLEY/DAILY/SES #04

SAMPLE DATE	INITIAL DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
JAN 28,81	JAN 27,81	0.65	0.77	0.220	0.080	0.390	0.790
JAN 29,81	JAN 28,81	0.57	1.00	0.160	0.040	0.510	*****
FEB 1,81	JAN 31,81	*****	*****	*****	*****	*****	*****
FEB 2,81	FEB 1,81	*****	*****	*****	*****	*****	*****
FEB 3,81	FEB 2,81	*****	1.26	*****	*****	*****	*****
FEB 4,81	FEB 3,81	*****	*****	*****	*****	*****	*****
FEB 6,81	FEB 5,81	*****	*****	*****	*****	*****	*****
FEB 8,81	FEB 7,81	*****	*****	*****	*****	*****	*****
FEB 9,81	FEB 8,81	*****	2.05	*****	*****	*****	*****
FEB 10,81	FEB 9,81	0.14	0.11	0.040	0.010	0.070	0.126
FEB 11,81	FEB 10,81	0.04	0.10	0.030	0.010	0.070	0.174
FEB 12,81	FEB 11,81	*****	6.50	*****	*****	*****	*****
FEB 16,81	FEB 15,81	0.56	0.53	0.080	0.060	0.400	0.860
FEB 18,81	FEB 17,81	*****	*****	*****	*****	*****	*****
FEB 20,81	FEB 19,81	0.72	0.78	0.215	0.120	0.360	5.650
FEB 23,81	FEB 22,81	0.06	0.08	0.020	0.020	0.040	0.430
FEB 24,81	FEB 23,81	0.61	0.20	0.155	0.070	0.220	0.660
FEB 25,81	FEB 24,81	1.20	0.53	0.240	0.040	0.190	1.290
FEB 28,81	FEB 27,81	0.68	0.28	0.155	0.020	0.120	0.550
MAR 1,81	FEB 28,81	*****	*****	*****	*****	*****	*****
MAR 2,81	MAR 1,81	*****	0.30	*****	*****	*****	3.300
MAR 3,81	MAR 2,81	*****	*****	*****	*****	*****	*****
MAR 4,81	MAR 3,81	*****	0.92	*****	*****	*****	1.160
MAR 9,81	MAR 8,81	*****	0.80	*****	*****	*****	1.940
MAR 11,81	MAR 10,81	0.93	0.14	0.230	0.030	0.160	0.820
MAR 17,81	MAR 16,81	2.80	0.28	0.795	0.030	0.120	0.400
MAR 18,81	MAR 17,81	*****	0.98	*****	*****	*****	*****
MAR 20,81	MAR 19,81	0.14	0.15	0.045	0.020	0.100	0.900
MAR 26,81	MAR 25,81	1.09	0.33	0.175	0.030	0.120	0.640
MAR 27,81	MAR 26,81	0.37	0.16	0.035	0.030	0.060	0.980
MAR 30,81	MAR 29,81	0.40	0.09	0.050	0.020	0.060	0.580
MAR 31,81	MAR 30,81	*****	0.22	*****	*****	*****	*****
APR 1,81	MAR 31,81	*****	0.84	*****	*****	*****	0.710
APR 4,81	APR 3,81	2.55	0.69	0.390	0.240	0.450	1.540
APR 9,81	APR 8,81	4.05	0.98	0.750	0.180	0.630	2.000
APR 11,81	APR 10,81	0.48	0.10	0.120	< 0.010	0.070	0.490
APR 12,81	APR 11,81	*****	*****	*****	*****	*****	*****
APR 14,81	APR 13,81	0.09	0.11	0.045	0.010	0.110	0.348
APR 17,81	APR 15,81	1.71	0.22	0.455	0.010	0.120	0.520
APR 18,81	APR 17,81	0.70	0.11	0.155	0.080	0.110	1.560

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WELLESLEY/DAILY/SES #04 PAGE : 4

SAMPLE DATE	INITIAL DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
APR 20,81	APR 19,81	1200	1800	100	300	1	****	*	2033	2	1	****	C	
APR 23,81	APR 22,81	1600	1700	2230	1400	1	9.2	2	2034	2	1	115	AC	
APR 24,81	APR 23,81	1700	1600	1700	1500	1	3.6	2	2035	2	1	104	A	
APR 28,81	APR 27,81	1700	1600	2400	900	1	18.2	2	2036	2	1	95	A	
APR 29,81	APR 28,81	1600	1600	100	700	1	4.8	2	2037	2	1	121	A	
MAY 5,81	MAY 4,81	1700	1700	1500	1830	1	0.4	2	18601	2	1	161	AC	NF
MAY 7,81	MAY 5,81	1700	1600	****	****	1	****	2	18602	2	1	****	C	
NOV 30,81	NOV 29,81	530	530	****	****	3	3.7	2	18670	2	1	45		N
DEC 1,81	NOV 30,81	530	530	****	****	3	4.6	2	18671	2	1	55	C	
DEC 2,81	DEC 1,81	530	530	1900	2200	1	11.8	2	18672	2	1	98	C	
DEC 3,81	DEC 2,81	530	530	****	****	1	****	2	18673	2	1	****	C	
DEC 4,81	DEC 3,81	530	800	2400	700	2	0.8	2	18674	2	1	35	C	
DEC 9,81	DEC 8,81	530	530	530	1130	2	1.8	2	18675	2	1	66	CD	
DEC 15,81	DEC 14,81	530	530	****	****	2	0.8	2	18676	2	1	70	C	
DEC 17,81	DEC 16,81	530	530	****	****	3	0.5	2	18677	2	1	62	CD	F
DEC 22,81	DEC 21,81	530	530	1000	1900	2	5.4	2	18678	2	1	39	CD	N
DEC 23,81	DEC 22,81	530	530	2400	530	2	17.8	2	18679	2	1	90	C	
DEC 24,81	DEC 23,81	530	530	2400	400	2	0.8	2	18680	2	1	52		
DEC 25,81	DEC 24,81	830	900	****	****	2	0.6	2	18681	2	1	70	C	
DEC 27,81	DEC 26,81	800	630	930	1700	2	0.6	2	18682	2	1	25	CD	
DEC 28,81	DEC 27,81	630	530	1400	2200	3	1.8	2	18683	2	1	51	CD	
DEC 29,81	DEC 28,81	530	530	1200	530	2	3.6	2	18684	2	1	77	C	
JAN 1,82	DEC 31,81	530	900	1800	300	3	6.4	2	18685	2	1	79	C	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WELLESLEY/DAILY/SES #04

SAMPLE DATE	INITIAL DATE		VOLUME ML	CONDUCT. UMHO/CM	PH FIELD		PH LAB	TOTAL H+ MG/L	SULPHATE MG/L	NITRATE AS N MG/L
APR 20,81	APR 19,81		84.	*****	*****		6.50	*****	8.85	1.77
APR 23,81	APR 22,81		1737.	37.7	4.21		4.31	0.093	4.30	0.88
APR 24,81	APR 23,81		616.	40.8	4.21		4.21	0.100	3.50	0.89
APR 28,81	APR 27,81		2859.	8.9	5.66		6.31	0.027	1.50	0.26
APR 29,81	APR 28,81		954.	76.5	3.85		3.85	0.196	5.10	2.10
MAY 5,81	MAY 4,81		106.	*****	*****		7.77	*****	13.80	2.40
MAY 7,81	MAY 5,81		189.	*****	*****		3.83	*****	13.50	2.45
NOV 30,81	NOV 29,81	U	275.	24.2	*****		5.33	0.051	4.65	0.59
DEC 1,81	NOV 30,81		421.	24.0	*****		5.27	0.048	4.70	0.60
DEC 2,81	DEC 1,81		1912.	*****	4.22		4.34	*****	*****	*****
DEC 3,81	DEC 2,81		46.	*****	*****		4.20	*****	9.50	2.16
DEC 4,81	DEC 3,81		46.	*****	*****		6.77	*****	9.95	1.08
DEC 9,81	DEC 8,81		195.	*****	*****		5.03	*****	4.95	2.26
DEC 15,81	DEC 14,81		93.	*****	*****		7.20	*****	8.40	2.16
DEC 17,81	DEC 16,81		51.	*****	*****	U	7.48	*****	2.00	0.39
DEC 22,81	DEC 21,81	U	353.	*****	*****		6.47	*****	1.10	0.37
DEC 23,81	DEC 22,81		2644.	7.2	*****		4.78	0.057	0.45	0.13
DEC 24,81	DEC 23,81		69.	*****	*****		4.86	*****	1.35	0.38
DEC 25,81	DEC 24,81		69.	*****	*****		6.61	*****	4.20	1.94
DEC 27,81	DEC 26,81		25.	*****	*****		4.17	*****	*****	*****
DEC 28,81	DEC 27,81		152.	36.2	*****		4.22	*****	2.60	0.92
DEC 29,81	DEC 28,81		460.	15.1	*****		4.63	0.067	0.65	0.51
JAN 1,82	DEC 31,81		838.	33.0	*****		4.25	0.108	2.75	0.75

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WELLESLEY/DAILY/SES #04

SAMPLE DATE	INITIAL DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
APR 20,81	APR 19,81	*****	0.57	*****	*****	*****	*****
APR 23,81	APR 22,81	0.83	0.19	0.215	< 0.010	0.050	0.720
APR 24,81	APR 23,81	0.46	0.96	0.105	< 0.010	0.040	1.040
APR 28,81	APR 27,81	0.58	0.02	0.155	< 0.010	0.020	0.310
APR 29,81	APR 28,81	0.36	0.17	0.130	0.060	0.060	1.320
MAY 5,81	MAY 4,81	*****	0.96	*****	*****	*****	2.650
MAY 7,81	MAY 5,81	1.15	0.95	0.365	0.070	0.200	3.050
NOV 30,81	NOV 29,81	1.16	0.48	0.390	0.150	0.320	0.670
DEC 1,81	NOV 30,81	1.32	0.51	0.380	0.140	0.300	0.650
DEC 2,81	DEC 1,81	*****	*****	*****	*****	*****	*****
DEC 3,81	DEC 2,81	*****	0.90	*****	*****	*****	*****
DEC 4,81	DEC 3,81	*****	0.72	*****	*****	*****	*****
DEC 9,81	DEC 8,81	2.02	0.74	0.270	0.100	0.300	2.300
DEC 15,81	DEC 14,81	*****	2.07	*****	*****	*****	*****
DEC 17,81	DEC 16,81	*****	4.14	*****	*****	*****	*****
DEC 22,81	DEC 21,81	*****	0.17	*****	*****	*****	*****
DEC 23,81	DEC 22,81	0.05	0.07	< 0.005	< 0.010	0.010	0.104
DEC 24,81	DEC 23,81	*****	0.29	*****	*****	*****	*****
DEC 25,81	DEC 24,81	*****	1.09	*****	*****	*****	*****
DEC 27,81	DEC 26,81	*****	*****	*****	*****	*****	*****
DEC 28,81	DEC 27,81	0.78	0.45	0.070	0.060	0.090	0.340
DEC 29,81	DEC 28,81	0.09	0.15	0.015	0.010	0.050	0.330
JAN 1,82	DEC 31,81	0.50	0.50	0.060	0.030	0.320	0.570

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAVEN LAKE/DAILY/AEROCHEM #05

SAMPLE DATE	INITIAL DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
MAY 6,81	MAY 5,81	830	830	1800	2100	1	2.5	1	28601	2	1	107		
MAY 10,81	MAY 9,81	830	830	300	400	1	2.4	1	28602	2	1	83		
MAY 11,81	MAY 10,81	830	830	2300	100	1	15.0	1	28603	2	1	78		
MAY 12,81	MAY 11,81	830	830	1500	1800	1	8.0	1	28604	2	1	79		
MAY 15,81	MAY 14,81	830	830	1800	2100	1	2.5	1	28605	2	1	92	C	
MAY 16,81	MAY 15,81	830	830	1500	1800	1	1.0	1	28606	2	1	63	C	
MAY 26,81	MAY 25,81	830	830	1400	1600	1	2.2	1	28607	2	1	141	D	N
MAY 27,81	MAY 26,81	830	830	1330	1400	1	4.0	1	28608	2	1	92	D	
MAY 28,81	MAY 27,81	830	830	1500	2000	1	6.4	1	28609	2	1	102		
MAY 30,81	MAY 29,81	830	830	300	400	1	6.6	1	28610	2	1	105	D	
JUN 3,81	JUN 2,81	830	830	300	800	1	0.6	1	28611	2	1	122	CD	
JUN 4,81	JUN 3,81	830	830	1030	1200	1	3.6	1	28612	2	1	103		
JUN 9,81	JUN 8,81	830	830	2200	2300	1	18.8	1	28613	2	1	103	D	
JUN 11,81	JUN 10,81	830	830	1100	1500	1	2.6	1	28614	2	1	109		
JUN 13,81	JUN 12,81	830	830	1300	1400	1	0.6	1	28615	2	1	98		
JUN 16,81	JUN 15,81	830	830	1500	1700	1	25.0	1	28616	2	1	202		N
JUN 17,81	JUN 16,81	830	830	1800	1900	1	0.8	1	28617	2	1	144		N
JUN 22,81	JUN 21,81	830	830	530	830	1	18.8	1	28618	2	1	103		
JUN 23,81	JUN 22,81	830	830	1300	1500	1	18.4	1	28619	2	1	71	A	
JUN 25,81	JUN 24,81	830	830	1200	1300	1	1.2	1	28620	2	1	59		
JUN 30,81	JUN 29,81	830	830	2000	2200	1	6.0	1	28621	2	1	92		
JUL 3,81	JUL 2,81	830	830	1700	1730	1	4.2	1	28622	2	1	82		
JUL 6,81	JUL 5,81	830	830	1340	1430	1	25.0	1	28623	2	1	102		
JUL 18,81	JUL 17,81	830	830	2200	2300	1	4.8	1	28624	2	1	104		
JUL 20,81	JUL 19,81	830	830	1730	1900	1	3.5	1	28625	2	1	82		
JUL 29,81	JUL 28,81	830	830	1000	1700	1	20.3	1	28626	2	1	95	A	
AUG 4,81	AUG 3,81	830	830	830	1100	1	5.1	1	28627	2	1	95	A	
AUG 5,81	AUG 4,81	830	830	2200	****	1	5.0	1	28628	2	1	94		
AUG 9,81	AUG 8,81	830	830	1500	1600	1	10.0	1	28629	2	1	90		
AUG 11,81	AUG 10,81	830	830	1600	1800	1	12.4	1	28630	2	1	98		
AUG 15,81	AUG 14,81	830	830	400	500	1	23.0	1	28631	2	1	97		
AUG 16,81	AUG 15,81	830	830	830	1100	1	10.0	1	28632	2	1	98		
AUG 24,81	AUG 23,81	830	830	2200	2300	1	5.0	1	28633	2	1	91		
AUG 27,81	AUG 26,81	830	830	600	800	1	2.4	1	28634	2	1	102		
AUG 28,81	AUG 27,81	830	830	830	1000	1	1.7	1	28635	2	1	72		
AUG 29,81	AUG 28,81	830	830	1830	2200	1	5.3	1	28636	2	1	99		
SEP 2,81	SEP 1,81	830	830	900	1000	1	12.2	1	28637	2	1	113		
SEP 4,81	SEP 3,81	830	830	2200	2400	1	26.0	1	28638	2	1	92		
SEP 5,81	SEP 4,81	830	830	830	1400	1	17.6	1	28639	2	1	91		
SEP 6,81	SEP 5,81	830	830	2000	2100	1	2.0	1	28640	2	1	42	C	ND

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAVEN LAKE/DAILY/AEROCHEM #05

SAMPLE DATE	INITIAL DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ MG/L	SULPHATE MG/L	NITRATE AS N MG/L
MAY 6,81	MAY 5,81	172.	*****	*****	4.42	*****	2.65	0.54
MAY 10,81	MAY 9,81	128.	*****	*****	3.74	*****	9.85	1.56
MAY 11,81	MAY 10,81	754.	62.5	3.87	3.99	0.165	5.90	0.85
MAY 12,81	MAY 11,81	408.	21.9	4.30	4.36	0.074	1.90	0.39
MAY 15,81	MAY 14,81	149.	*****	*****	4.06	*****	4.40	0.50
MAY 16,81	MAY 15,81	41.	*****	*****	3.54	*****	15.50	2.00
MAY 26,81	MAY 25,81	200.	*****	*****	4.08	*****	3.75	0.58
MAY 27,81	MAY 26,81	238.	*****	*****	6.26	0.031	2.15	0.52
MAY 28,81	MAY 27,81	421.	56.5	3.92	3.92	0.158	5.45	0.62
MAY 30,81	MAY 29,81	448.	37.9	4.17	4.12	0.101	4.15	0.59
JUN 3,81	JUN 2,81	47.	*****	*****	3.52	*****	15.50	2.10
JUN 4,81	JUN 3,81	238.	*****	*****	3.60	U 0.033	11.50	1.47
JUN 9,81	JUN 8,81	1253.	34.4	4.21	4.30	U 0.037	4.90	0.61
JUN 11,81	JUN 10,81	182.	*****	*****	4.66	*****	1.15	0.25
JUN 13,81	JUN 12,81	38.	*****	*****	6.19	*****	1.85	0.52
JUN 16,81	JUN 15,81	3247.	11.8	4.72	4.84	0.045	1.25	0.22
JUN 17,81	JUN 16,81	74.	*****	*****	3.94	*****	6.25	0.79
JUN 22,81	JUN 21,81	1249.	17.9	4.31	4.45	0.067	1.60	0.23
JUN 23,81	JUN 22,81	839.	11.0	4.46	4.65	0.057	1.25	0.05
JUN 25,81	JUN 24,81	46.	*****	*****	4.21	*****	3.45	0.60
JUN 30,81	JUN 29,81	357.	34.6	4.28	4.25	0.096	4.65	0.55
JUL 3,81	JUL 2,81	222.	*****	*****	4.35	*****	3.00	0.57
JUL 6,81	JUL 5,81	1645.	52.0	3.94	3.95	0.148	5.30	0.38
JUL 18,81	JUL 17,81	322.	*****	4.38	4.41	*****	*****	*****
JUL 20,81	JUL 19,81	184.	*****	*****	3.58	*****	13.20	1.69
JUL 29,81	JUL 28,81	1245.	21.8	4.17	4.38	0.070	1.85	0.20
AUG 4,81	AUG 3,81	311.	17.8	*****	4.45	0.063	1.65	0.22
AUG 5,81	AUG 4,81	303.	33.7	*****	4.25	0.089	3.95	0.45
AUG 9,81	AUG 8,81	577.	39.5	3.91	4.10	0.111	3.45	0.48
AUG 11,81	AUG 10,81	783.	39.9	4.02	4.16	0.106	4.00	0.66
AUG 15,81	AUG 14,81	1438.	46.5	3.85	4.03	*****	4.40	0.51
AUG 16,81	AUG 15,81	632.	34.4	3.99	4.16	0.107	3.60	0.23
AUG 24,81	AUG 23,81	292.	47.4	*****	4.05	0.123	4.70	0.52
AUG 27,81	AUG 26,81	157.	*****	*****	4.00	*****	5.80	0.77
AUG 28,81	AUG 27,81	79.	*****	*****	3.94	*****	6.30	0.45
AUG 29,81	AUG 28,81	339.	84.0	*****	3.74	0.222	9.15	0.41
SEP 2,81	SEP 1,81	888.	76.0	3.63	3.77	0.200	6.80	0.85
SEP 4,81	SEP 3,81	1543.	32.4	3.97	4.17	0.098	3.00	0.29
SEP 5,81	SEP 4,81	1035.	29.1	4.17	4.21	0.091	2.45	0.29
SEP 6,81	SEP 5,81	U 55.	*****	*****	4.02	*****	4.50	0.33

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAVEN LAKE/DAILY/AEROCHEM #05

SAMPLE DATE	INITIAL DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
MAY 6,81	MAY 5,81	0.62	0.17	0.105	0.010	0.030	0.238
MAY 10,81	MAY 9,81	*****	0.37	*****	*****	*****	0.510
MAY 11,81	MAY 10,81	0.29	0.45	0.060	0.050	0.310	0.460
MAY 12,81	MAY 11,81	0.07	0.19	0.005	0.020	0.180	0.136
MAY 15,81	MAY 14,81	0.47	0.36	0.040	0.010	0.030	0.122
MAY 16,81	MAY 15,81	*****	0.57	*****	*****	*****	*****
MAY 26,81	MAY 25,81	0.27	0.17	0.040	0.020	0.090	0.230
MAY 27,81	MAY 26,81	0.47	0.15	0.085	0.030	0.130	0.860
MAY 28,81	MAY 27,81	0.09	0.20	0.010	0.030	0.040	0.370
MAY 30,81	MAY 29,81	0.18	0.20	0.030	0.030	0.090	0.660
JUN 3,81	JUN 2,81	*****	0.99	*****	*****	*****	*****
JUN 4,81	JUN 3,81	0.60	0.44	0.110	0.050	0.190	1.050
JUN 9,81	JUN 8,81	0.80	0.21	0.130	0.040	0.050	0.690
JUN 11,81	JUN 10,81	0.14	0.27	0.015	0.020	0.310	0.096
JUN 13,81	JUN 12,81	*****	0.46	*****	*****	*****	*****
JUN 16,81	JUN 15,81	0.10	0.21	0.025	0.020	0.160	0.300
JUN 17,81	JUN 16,81	*****	0.56	*****	*****	*****	*****
JUN 22,81	JUN 21,81	0.04	0.09	0.015	0.040	0.060	0.228
JUN 23,81	JUN 22,81	0.04	0.02	0.010	0.030	0.020	0.100
JUN 25,81	JUN 24,81	*****	0.33	*****	*****	*****	*****
JUN 30,81	JUN 29,81	0.65	0.20	0.105	0.030	0.110	0.780
JUL 3,81	JUL 2,81	0.68	0.57	0.070	0.020	0.410	0.370
JUL 6,81	JUL 5,81	0.06	0.10	0.015	0.030	0.040	0.390
JUL 18,81	JUL 17,81	*****	*****	*****	*****	*****	*****
JUL 20,81	JUL 19,81	0.52	0.79	0.080	0.120	0.730	1.280
JUL 29,81	JUL 28,81	0.06	0.07	0.005	0.010	0.040	0.056
AUG 4,81	AUG 3,81	0.11	0.16	0.015	0.010	0.160	0.112
AUG 5,81	AUG 4,81	0.12	0.16	0.020	0.020	0.100	0.670
AUG 9,81	AUG 8,81	0.10	0.12	0.015	0.010	0.040	0.192
AUG 11,81	AUG 10,81	0.31	0.16	0.040	0.030	0.070	0.640
AUG 15,81	AUG 14,81	0.08	0.12	0.015	0.020	0.040	0.420
AUG 16,81	AUG 15,81	0.04	0.12	0.010	0.010	0.120	0.314
AUG 24,81	AUG 23,81	0.22	0.30	0.025	0.010	0.250	0.320
AUG 27,81	AUG 26,81	0.61	0.28	0.100	0.020	0.200	0.500
AUG 28,81	AUG 27,81	*****	0.48	*****	*****	*****	*****
AUG 29,81	AUG 28,81	0.08	0.16	0.005	0.010	0.140	0.410
SEP 2,81	SEP 1,81	0.10	0.22	0.010	0.020	0.070	0.380
SEP 4,81	SEP 3,81	0.02	0.07	< 0.005	0.010	0.040	0.170
SEP 5,81	SEP 4,81	0.02	0.14	< 0.005	0.010	0.070	0.114
SEP 6,81	SEP 5,81	*****	0.47	*****	*****	*****	*****

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAVEN LAKE/DAILY/AEROCHEM #05

SAMPLE DATE	INITIAL DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
SEP 7,81	SEP 6,81	830	830	1400	1600	1	2.3	1	28641	2	1	52	C	
SEP 8,81	SEP 7,81	830	800	****	300	1	37.2	1	28642	2	1	100	A	
SEP 9,81	SEP 8,81	800	830	600	900	1	7.2	1	28643	2	1	94		
SEP 10,81	SEP 9,81	830	830	700	730	1	1.3	1	28644	2	1	91	C	
SEP 11,81	SEP 10,81	830	830	1130	1200	1	1.3	1	28645	2	1	75	C	
SEP 26,81	SEP 25,81	830	830	400	600	1	1.2	1	28646	2	1	48		
SEP 27,81	SEP 26,81	830	830	2200	2300	1	19.2	1	28647	2	1	97		
SEP 28,81	SEP 27,81	830	830	300	400	1	1.3	1	28648	2	1	64	C	
OCT 2,81	OCT 1,81	830	830	1030	1130	1	8.0	1	28649	2	1	91	C	
OCT 5,81	OCT 4,81	830	830	1400	1500	1	2.0	1	28650	2	1	47	C	N
OCT 6,81	OCT 5,81	830	830	600	830	1	10.4	1	28651	2	1	103		
OCT 7,81	OCT 6,81	830	830	830	1030	1	12.2	1	28652	2	1	95		
OCT 8,81	OCT 7,81	830	830	1700	1900	1	2.0	1	28653	2	1	67	C	
OCT 16,81	OCT 15,81	830	830	800	1000	1	2.0	1	28654	2	1	21		
OCT 18,81	OCT 17,81	830	830	500	830	1	13.2	1	28655	2	1	100		
OCT 19,81	OCT 18,81	830	830	830	1000	1	2.6	1	28656	2	1	164		N
OCT 22,81	OCT 21,81	830	830	2200	400	2	5.3	1	28657	2	1	88		
OCT 23,81	OCT 22,81	830	830	1400	1200	2	8.0	1	28658	2	1	125	C	
OCT 24,81	OCT 23,81	830	830	1530	1630	3	4.0	1	28659	2	1	68	C	
OCT 26,81	OCT 25,81	830	830	600	800	1	0.6	1	28660	2	1	184	C	N
OCT 28,81	OCT 27,81	830	830	1100	1530	1	12.2	1	28661	2	1	101	C	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAVEN LAKE/DAILY/AEROCHEM #05

SAMPLE DATE	INITIAL DATE		VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ MG/L	SULPHATE MG/L	NITRATE AS N MG/L
SEP 7,81	SEP 6,81		78.	*****	*****	3.84	*****	6.40	0.79
SEP 8,81	SEP 7,81		2394.	41.0	4.03	4.09	0.122	4.15	0.53
SEP 9,81	SEP 8,81		434.	21.7	6.61	6.92	0.023	3.20	0.44
SEP 10,81	SEP 9,81		76.	*****	*****	6.81	*****	2.70	0.43
SEP 11,81	SEP 10,81		63.	*****	*****	6.60	*****	5.15	0.82
SEP 26,81	SEP 25,81		37.	*****	*****	4.41	*****	4.20	0.84
SEP 27,81	SEP 26,81		1202.	71.0	3.79	3.83	0.189	7.15	0.76
SEP 28,81	SEP 27,81		54.	*****	*****	6.41	*****	1.00	0.06
OCT 2,81	OCT 1,81		470.	20.7	4.34	4.45	0.064	1.90	0.24
OCT 5,81	OCT 4,81	U	61.	*****	*****	4.38	*****	2.75	0.30
OCT 6,81	OCT 5,81		690.	31.8	4.18	4.17	0.099	2.70	0.56
OCT 7,81	OCT 6,81		745.	20.8	4.36	4.39	0.068	1.80	0.20
OCT 8,81	OCT 7,81		86.	*****	*****	4.68	*****	1.00	0.17
OCT 16,81	OCT 15,81		28.	*****	*****	4.02	*****	*****	*****
OCT 18,81	OCT 17,81		854.	21.6	4.27	4.24	0.077	1.80	0.22
OCT 19,81	OCT 18,81		274.	12.0	*****	5.06	0.037	1.60	0.12
OCT 22,81	OCT 21,81		300.	7.8	*****	4.84	0.045	0.80	0.11
OCT 23,81	OCT 22,81		646.	5.3	4.96	4.97	0.034	0.25	0.07
OCT 24,81	OCT 23,81		175.	*****	*****	4.92	*****	1.35	0.37
OCT 26,81	OCT 25,81		71.	*****	*****	4.00	*****	2.90	0.71
OCT 28,81	OCT 27,81		795.	12.4	4.50	4.57	0.053	1.10	0.11

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAVEN LAKE/DAILY/AEROCHEM #05

SAMPLE DATE	INITIAL DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
SEP 7,81	SEP 6,81	*****	0.53	*****	*****	*****	0.346
SEP 8,81	SEP 7,81	0.05	0.12	0.020	0.020	0.030	0.510
SEP 9,81	SEP 8,81	2.68	0.36	0.110	0.020	0.190	0.122
SEP 10,81	SEP 9,81	*****	0.62	*****	*****	*****	*****
SEP 11,81	SEP 10,81	*****	0.32	*****	*****	*****	*****
SEP 26,81	SEP 25,81	*****	0.45	*****	*****	*****	*****
SEP 27,81	SEP 26,81	0.35	0.20	0.045	0.040	0.100	0.610
SEP 28,81	SEP 27,81	*****	0.85	*****	*****	*****	*****
OCT 2,81	OCT 1,81	0.05	0.15	< 0.005	< 0.010	0.240	0.214
OCT 5,81	OCT 4,81	*****	0.55	*****	*****	*****	*****
OCT 6,81	OCT 5,81	0.24	0.16	0.005	0.040	0.160	0.286
OCT 7,81	OCT 6,81	0.02	0.09	< 0.005	< 0.010	0.130	0.132
OCT 8,81	OCT 7,81	*****	0.40	*****	*****	*****	0.358
OCT 16,81	OCT 15,81	*****	*****	*****	*****	*****	*****
OCT 18,81	OCT 17,81	0.07	0.09	0.020	0.020	0.070	0.090
OCT 19,81	OCT 18,81	0.15	0.22	0.025	0.040	0.350	0.216
OCT 22,81	OCT 21,81	0.16	0.10	< 0.005	0.020	0.170	0.038
OCT 23,81	OCT 22,81	0.03	0.04	< 0.005	< 0.010	0.060	0.004
OCT 24,81	OCT 23,81	0.41	0.15	0.015	0.040	0.180	0.308
OCT 26,81	OCT 25,81	*****	0.52	*****	*****	*****	*****
OCT 28,81	OCT 27,81	0.06	0.04	< 0.005	< 0.010	0.010	0.006

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAVEN LAKE/DAILY/SES #05 PAGE : 1

SAMPLE DATE	INITIAL DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
FEB 2,81	FEB 1,81	830	830	****	****	3	****	*	477	2	1	****		
FEB 3,81	FEB 2,81	830	830	****	****	2	****	*	478	2	1	****		
FEB 6,81	DEC 5,81	900	900	****	****	2	****	*	479	2	1	****		
FEB 7,81	FEB 6,81	830	830	****	****	2	****	*	480	2	1	****		
FEB 8,81	FEB 7,81	830	830	****	****	2	****	*	481	2	1	****		
FEB 11,81	FEB 10,81	830	830	****	****	3	****	*	482	2	1	****		M
FEB 12,81	FEB 11,81	830	830	****	****	2	****	*	483	2	1	****		
FEB 17,81	FEB 16,81	830	830	****	****	1	****	*	484	2	1	****		
FEB 20,81	FEB 19,81	830	830	****	****	1	4.4	1	1584	2	1	104		
FEB 21,81	FEB 20,81	830	830	****	****	1	7.8	1	1585	2	1	97		
FEB 23,81	FEB 22,81	830	830	****	****	1	1.2	1	1586	2	1	82		
FEB 24,81	FEB 23,81	830	830	****	****	1	8.0	1	1587	2	1	100		
FEB 25,81	FEB 24,81	830	830	****	****	1	2.0	1	1588	2	1	59		
FEB 28,81	FEB 27,81	830	830	****	****	1	0.8	2	1589	2	1	143	C	N
MAR 1,81	FEB 28,81	830	830	****	****	1	0.4	2	1590	2	1	41		
MAR 2,81	MAR 1,81	830	830	****	****	2	0.6	2	1591	2	1	63		
MAR 4,81	MAR 3,81	830	830	****	****	2	1.8	2	1592	2	1	65		
MAR 5,81	MAR 4,81	830	830	****	****	2	3.7	2	1593	2	1	67		
MAR 7,81	MAR 6,81	830	830	****	****	2	1.0	2	1594	2	1	53		
MAR 11,81	MAR 10,81	830	830	****	****	2	0.7	2	1595	2	1	67	CD	
MAR 12,81	MAR 11,81	830	830	****	****	3	0.7	2	1596	2	1	51		
MAR 14,81	MAR 13,81	830	830	****	****	2	1.2	1	2500	2	1	15	E	
MAR 16,81	MAR 15,81	830	830	****	****	2	2.9	2	1597	2	1	82	D	
MAR 17,81	MAR 16,81	830	830	****	****	2	2.2	2	1598	2	1	111	C	
MAR 20,81	MAR 19,81	830	830	****	****	2	1.5	2	1599	2	1	42		N
MAR 27,81	MAR 26,81	830	830	****	****	3	4.8	2	1600	2	1	104		
MAR 30,81	MAR 29,81	830	1230	****	****	1	15.4	1	1601	2	1	105		
MAR 31,81	MAR 30,81	1230	830	****	****	1	5.4	1	1602	2	1	102		
APR 2,81	APR 1,81	830	830	****	****	1	2.8	1	1603	2	1	130		N
APR 4,81	APR 3,81	830	830	****	****	1	6.8	1	1604	2	1	121	CD	
APR 9,81	APR 8,81	830	830	****	****	1	2.2	1	2086	2	1	106	CD	EC
APR 11,81	APR 10,81	830	830	****	****	1	10.2	1	2087	2	1	103		
APR 14,81	APR 13,81	830	830	****	****	1	16.0	1	2088	2	1	101		
APR 15,81	APR 14,81	830	830	****	****	1	2.2	1	2089	2	1	97		
APR 17,81	APR 16,81	830	830	400	700	1	2.4	1	2090	2	1	129	C	
APR 18,81	APR 17,81	830	830	2300	400	1	17.2	1	2091	2	1	103	C	
APR 20,81	APR 19,81	830	830	2000	2300	3	1.6	1	2092	2	1	86	C	
APR 23,81	APR 22,81	830	830	****	****	1	0.8	1	2093	2	1	61		
APR 24,81	APR 23,81	830	830	1800	2000	1	4.8	1	2094	2	1	127		N
APR 25,81	APR 24,81	830	830	2000	2300	3	2.6	1	2095	2	1	103		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAVEN LAKE/DAILY/SES #05 PAGE : 2

SAMPLE DATE	INITIAL DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ MG/L	SULPHATE MG/L	NITRATE AS N MG/L
FEB 2,81	FEB 1,81	1995.	17.6	4.35	4.39	0.072	1.50	0.52
FEB 3,81	FEB 2,81	74.	21.6	*****	4.40	*****	1.85	0.86
FEB 6,81	DEC 5,81	133.	33.6	*****	6.93	*****	1.65	1.70
FEB 7,81	FEB 6,81	292.	26.1	*****	6.82	*****	2.00	1.24
FEB 8,81	FEB 7,81	72.	*****	*****	3.80	*****	5.60	> 2.00
FEB 11,81	FEB 10,81	3360.	10.9	4.43	4.78	0.057	0.85	0.28
FEB 12,81	FEB 11,81	179.	24.1	*****	4.33	*****	2.10	0.62
FEB 17,81	FEB 16,81	457.	40.6	4.08	4.11	0.109	3.70	0.53
FEB 20,81	FEB 19,81	752.	49.4	3.80	3.98	0.143	3.35	1.00
FEB 21,81	FEB 20,81	1249.	12.9	4.32	4.60	0.054	0.75	0.22
FEB 23,81	FEB 22,81	163.	*****	*****	4.28	*****	5.40	0.76
FEB 24,81	FEB 23,81	1317.	22.1	4.14	4.36	0.076	1.65	0.38
FEB 25,81	FEB 24,81	194.	*****	*****	5.22	*****	3.85	1.58
FEB 28,81	FEB 27,81	188.	*****	*****	4.01	*****	11.75	1.58
MAR 1,81	FEB 28,81	27.	*****	*****	3.57	*****	*****	*****
MAR 2,81	MAR 1,81	62.	*****	*****	5.85	*****	5.55	0.68
MAR 4,81	MAR 3,81	192.	*****	*****	4.46	*****	0.50	1.14
MAR 5,81	MAR 4,81	411.	*****	4.08	4.12	0.124	2.55	1.42
MAR 7,81	MAR 6,81	88.	*****	*****	4.94	*****	0.55	0.14
MAR 11,81	MAR 10,81	77.	*****	*****	4.70	*****	2.00	0.51
MAR 12,81	MAR 11,81	59.	*****	*****	4.56	*****	2.30	0.17
MAR 14,81	MAR 13,81	30.	*****	*****	*****	*****	*****	*****
MAR 16,81	MAR 15,81	394.	25.0	6.49	6.68	0.031	3.90	0.85
MAR 17,81	MAR 16,81	402.	8.3	6.20	6.46	0.025	0.35	0.36
MAR 20,81	MAR 19,81	U 105.	*****	*****	6.31	*****	0.95	0.11
MAR 27,81	MAR 26,81	819.	55.0	3.92	4.06	0.135	4.55	1.34
MAR 30,81	MAR 29,81	2653.	37.7	4.13	4.25	0.098	4.90	0.52
MAR 31,81	MAR 30,81	911.	30.5	4.24	4.33	0.086	3.65	0.47
APR 2,81	APR 1,81	597.	36.5	4.23	4.39	0.084	5.30	0.76
APR 4,81	APR 3,81	1355.	29.5	4.41	4.96	0.049	6.10	0.71
APR 9,81	APR 8,81	384.	60.0	6.80	7.27	0.034	9.20	1.70
APR 11,81	APR 10,81	1737.	34.0	4.10	4.30	0.085	4.30	0.93
APR 14,81	APR 13,81	2668.	22.6	4.22	4.37	0.072	2.35	0.38
APR 15,81	APR 14,81	353.	23.5	4.17	4.34	0.076	2.40	0.24
APR 17,81	APR 16,81	510.	23.0	5.57	6.25	0.033	3.90	1.01
APR 18,81	APR 17,81	2905.	27.7	4.11	4.54	0.069	3.80	0.80
APR 20,81	APR 19,81	227.	*****	*****	4.44	0.076	4.60	0.53
APR 23,81	APR 22,81	81.	*****	*****	7.50	*****	5.05	0.82
APR 24,81	APR 23,81	1002.	68.0	3.71	3.85	0.190	6.55	1.03
APR 25,81	APR 24,81	441.	17.3	4.30	4.50	0.066	1.30	0.28

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAVEN LAKE/DAILY/SES #05

SAMPLE DATE	INITIAL DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
FEB 2,81	FEB 1,81	0.42	0.20	0.035	0.030	0.060	0.146
FEB 3,81	FEB 2,81	*****	0.36	*****	*****	*****	0.390
FEB 6,81	DEC 5,81	4.90	1.02	0.370	0.120	0.860	0.070
FEB 7,81	FEB 6,81	3.60	0.54	0.215	0.120	0.500	0.182
FEB 8,81	FEB 7,81	*****	> 1.50	*****	*****	*****	1.080
FEB 11,81	FEB 10,81	0.17	0.28	0.040	0.020	0.040	0.104
FEB 12,81	FEB 11,81	0.53	0.38	0.060	0.090	0.060	0.088
FEB 17,81	FEB 16,81	0.52	1.08	0.070	0.040	0.660	0.176
FEB 20,81	FEB 19,81	0.16	0.10	0.015	0.040	0.040	0.308
FEB 21,81	FEB 20,81	0.04	0.03	< 0.005	0.010	0.010	0.052
FEB 23,81	FEB 22,81	0.77	2.20	0.240	0.160	1.800	0.760
FEB 24,81	FEB 23,81	0.12	0.20	0.015	0.020	0.090	0.156
FEB 25,81	FEB 24,81	1.82	0.29	0.200	0.200	0.110	1.090
FEB 28,81	FEB 27,81	2.50	0.60	0.180	0.130	0.480	1.800
MAR 1,81	FEB 28,81	*****	*****	*****	*****	*****	*****
MAR 2,81	MAR 1,81	*****	0.27	*****	*****	*****	*****
MAR 4,81	MAR 3,81	0.93	0.38	0.105	0.020	0.110	0.132
MAR 5,81	MAR 4,81	0.63	0.69	0.100	0.050	0.140	0.620
MAR 7,81	MAR 6,81	*****	0.08	*****	*****	*****	0.008
MAR 11,81	MAR 10,81	*****	0.21	*****	*****	*****	0.316
MAR 12,81	MAR 11,81	*****	0.15	*****	*****	*****	*****
MAR 14,81	MAR 13,81	*****	*****	*****	*****	*****	*****
MAR 16,81	MAR 15,81	1.65	0.30	0.185	0.040	0.190	1.260
MAR 17,81	MAR 16,81	0.84	0.12	0.085	0.010	0.060	0.180
MAR 20,81	MAR 19,81	0.78	0.66	0.035	0.040	0.410	0.002
MAR 27,81	MAR 26,81	0.58	0.26	0.070	0.030	0.070	0.910
MAR 30,81	MAR 29,81	0.55	0.23	0.085	0.040	0.200	0.580
MAR 31,81	MAR 30,81	0.23	0.11	0.035	0.050	0.080	0.670
APR 2,81	APR 1,81	1.13	0.28	0.135	0.060	0.140	0.820
APR 4,81	APR 3,81	2.09	0.44	0.235	0.120	0.260	0.660
APR 9,81	APR 8,81	8.30	0.92	0.950	0.270	0.510	1.260
APR 11,81	APR 10,81	1.05	0.34	0.135	0.050	0.190	0.670
APR 14,81	APR 13,81	0.32	0.08	0.025	0.040	0.150	0.264
APR 15,81	APR 14,81	0.11	0.28	0.015	0.090	0.100	0.204
APR 17,81	APR 16,81	2.22	0.16	0.240	0.210	0.240	0.620
APR 18,81	APR 17,81	0.55	0.20	0.085	0.050	0.140	1.050
APR 20,81	APR 19,81	0.60	0.10	0.070	0.040	0.060	0.750
APR 23,81	APR 22,81	*****	0.54	*****	*****	*****	*****
APR 24,81	APR 23,81	0.11	0.16	0.020	0.030	0.060	0.690
APR 25,81	APR 24,81	0.08	0.04	< 0.005	< 0.010	0.010	0.158

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAVEN LAKE/DAILY/SES #05 PAGE : 4

SAMPLE DATE	INITIAL DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
APR 29,81	APR 28,81	830	830	2300	100	1	4.2	1	2096	2	1	110	D	
NOV 6,81	NOV 5,81	830	830	500	800	1	2.0	1	28662	2	1	78		
NOV 7,81	NOV 6,81	830	830	1200	1700	3	4.0	1	28663	2	1	83	C	
NOV 11,81	NOV 10,81	830	830	2000	2200	3	0.6	1	28664	2	1	115	C	
NOV 17,81	NOV 16,81	830	830	1100	2400	1	24.0	2	28665	2	1	146		N
NOV 18,81	NOV 17,81	830	830	1100	1400	1	2.0	2	28666	2	1	52	C	
NOV 20,81	NOV 19,81	830	830	530	830	2	9.0	2	28667	2	1	78		
NOV 21,81	NOV 20,81	830	830	1400	1700	3	11.0	2	28668	2	1	97		
NOV 23,81	NOV 22,81	830	830	1000	1600	2	2.0	2	28669	2	1	36	C	N
NOV 27,81	NOV 26,81	830	830	2200	2400	1	15.0	2	28670	2	1	107	C	
NOV 30,81	NOV 29,81	830	830	300	400	2	0.5	2	28671	2	1	48	C	
DEC 2,81	DEC 1,81	830	830	1500	1700	1	1.2	2	28672	2	1	137	C	N
DEC 8,81	DEC 7,81	830	830	1800	2000	2	3.5	2	28673	2	1	30	CG	N
DEC 11,81	DEC 10,81	830	830	900	1200	2	2.0	2	28674	2	1	12	C	
DEC 14,81	DEC 13,81	830	830	****	****	2	0.5	2	28675	2	1	30	C	
DEC 15,81	DEC 14,81	830	830	1300	1600	2	2.0	2	28676	2	1	82	C	
DEC 17,81	DEC 16,81	830	830	900	1100	2	0.2	2	28677	2	1	61	C	
DEC 19,81	DEC 18,81	830	830	2100	2300	2	****	2	28678	2	1	****	E	
DEC 23,81	DEC 21,81	830	830	1200	1530	2	16.0	2	28679	2	1	79	G	
DEC 26,81	DEC 25,81	830	830	200	300	2	****	2	28680	2	1	****	E	
DEC 28,81	DEC 27,81	830	830	1400	1700	2	6.0	2	28681	2	1	64	CG	
DEC 29,81	DEC 28,81	830	830	1500	2200	2	4.0	2	28682	2	1	54	CG	
JAN 1,82	DEC 31,81	830	830	2000	2300	3	9.0	2	28683	2	1	67		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAVEN LAKE/DAILY/SES #05

SAMPLE DATE	INITIAL DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ MG/L	SULPHATE MG/L	NITRATE AS N MG/L
APR 29,81	APR 28,81	763.	44.0	4.05	4.32	0.089	6.35	1.08
NOV 6,81	NOV 5,81	259.	84.5	*****	3.84	0.191	7.00	1.87
NOV 7,81	NOV 6,81	550.	13.5	4.48	4.64	0.053	1.00	0.14
NOV 11,81	NOV 10,81	114.	*****	*****	4.50	*****	5.65	2.64
NOV 17,81	NOV 16,81	5750.	5.9	4.76	4.98	0.040	0.55	0.04
NOV 18,81	NOV 17,81	172.	*****	*****	4.34	*****	2.35	0.21
NOV 20,81	NOV 19,81	1155.	14.9	4.45	4.51	0.078	1.05	0.24
NOV 21,81	NOV 20,81	1755.	28.5	4.22	4.20	0.109	1.80	0.48
NOV 23,81	NOV 22,81	U 120.	*****	*****	4.32	*****	2.20	0.06
NOV 27,81	NOV 26,81	2655.	35.8	4.11	4.15	0.124	2.90	0.52
NOV 30,81	NOV 29,81	40.	*****	*****	U 4.32	*****	0.30	0.27
DEC 2,81	DEC 1,81	270.	55.8	*****	4.07	0.142	4.95	1.32
DEC 8,81	DEC 7,81	U 175.	*****	*****	4.00	*****	6.65	2.90
DEC 11,81	DEC 10,81	40.	*****	*****	6.81	*****	4.00	0.13
DEC 14,81	DEC 13,81	25.	*****	*****	4.12	*****	*****	*****
DEC 15,81	DEC 14,81	270.	67.0	*****	3.90	*****	4.25	1.51
DEC 17,81	DEC 16,81	20.	*****	*****	U 7.43	*****	*****	*****
DEC 19,81	DEC 18,81	*****	*****	*****	*****	*****	*****	*****
DEC 23,81	DEC 21,81	2080.	14.7	4.56	4.68	*****	1.15	0.43
DEC 26,81	DEC 25,81	*****	*****	*****	*****	*****	*****	*****
DEC 28,81	DEC 27,81	630.	25.4	4.19	4.32	*****	1.35	0.76
DEC 29,81	DEC 28,81	355.	27.0	4.18	4.23	0.099	0.95	0.67
JAN 1,82	DEC 31,81	995.	31.5	4.15	4.18	0.117	2.45	0.60

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAVEN LAKE/DAILY/SES #05 PAGE : 6

SAMPLE DATE	INITIAL DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
APR 29,81	APR 28,81	1.85	0.17	0.090	0.080	0.080	0.810
NOV 6,81	NOV 5,81	1.10	0.30	0.095	0.070	0.150	1.070
NOV 7,81	NOV 6,81	0.10	0.03	< 0.005	< 0.010	0.020	0.084
NOV 11,81	NOV 10,81	3.20	0.58	0.525	0.130	0.130	1.010
NOV 17,81	NOV 16,81	0.02	0.02	0.005	< 0.010	0.020	0.064
NOV 18,81	NOV 17,81	0.16	0.08	0.010	0.040	0.120	0.304
NOV 20,81	NOV 19,81	0.10	< 0.01	0.005	< 0.010	0.020	0.162
NOV 21,81	NOV 20,81	0.08	0.07	< 0.005	0.010	0.100	0.236
NOV 23,81	NOV 22,81	0.09	0.05	0.005	< 0.010	0.090	0.044
NOV 27,81	NOV 26,81	0.21	0.08	0.005	0.010	0.080	0.380
NOV 30,81	NOV 29,81	*****	0.40	*****	*****	*****	*****
DEC 2,81	DEC 1,81	1.05	0.24	0.045	0.080	0.080	0.870
DEC 8,81	DEC 7,81	2.70	0.96	0.170	0.300	0.330	1.820
DEC 11,81	DEC 10,81	*****	1.53	*****	*****	*****	*****
DEC 14,81	DEC 13,81	*****	*****	*****	*****	*****	*****
DEC 15,81	DEC 14,81	0.64	0.54	0.065	0.050	0.210	0.620
DEC 17,81	DEC 16,81	*****	*****	*****	*****	*****	*****
DEC 19,81	DEC 18,81	*****	*****	*****	*****	*****	*****
DEC 23,81	DEC 21,81	0.50	0.35	0.045	0.040	0.190	*****
DEC 26,81	DEC 25,81	*****	*****	*****	*****	*****	*****
DEC 28,81	DEC 27,81	0.31	0.15	0.015	0.030	0.080	*****
DEC 29,81	DEC 28,81	0.16	0.24	0.010	0.020	0.110	*****
JAN 1,82	DEC 31,81	0.34	0.21	0.020	0.030	0.150	0.326

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : BALSAM LAKE/DAILY/AEROCHEM #06

SAMPLE DATE	INITIAL DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
NOV 22,80	NOV 21,80	800	800	****	****	1	3.0	1	441	2	1	71		
NOV 24,80	NOV 23,80	800	800	****	****	1	1.0	1	442	2	1	88		
NOV 25,80	NOV 24,80	800	800	****	****	3	****	*	443	2	1	****		LF
NOV 26,80	NOV 25,80	800	800	****	****	2	****	*	444	2	1	****		L
NOV 29,80	NOV 28,80	800	800	****	****	2	****	*	445	2	1	****		M
NOV 30,80	NOV 29,80	800	800	****	****	2	****	*	446	2	1	****		
DEC 2,80	DEC 1,80	800	800	****	****	2	****	*	447	2	1	****		L
DEC 3,80	DEC 2,80	800	800	****	****	1	26.0	1	448	2	1	78		
DEC 8,80	DEC 7,80	800	800	****	****	1	11.0	1	449	2	1	59		M
DEC 9,80	DEC 8,80	800	800	****	****	1	16.0	1	450	2	1	80		M
DEC 11,80	DEC 10,80	800	800	****	****	2	****	*	451	2	1	****		
DEC 12,80	DEC 11,80	800	800	****	****	2	****	*	452	2	1	****		
DEC 13,80	DEC 12,80	800	800	****	****	2	****	*	453	2	1	****		M
DEC 14,80	DEC 13,80	800	800	****	****	2	****	*	454	2	1	****		
DEC 18,80	DEC 17,80	800	815	****	****	2	****	*	455	2	1	****		
DEC 19,80	DEC 18,80	845	900	1045	****	2	****	*	2536	2	1	****		
DEC 21,80	DEC 20,80	1130	1115	1100	****	2	****	*	2496	2	1	****	E	
DEC 24,80	DEC 23,80	720	755	****	****	2	****	*	456	2	1	****		M
DEC 29,80	DEC 28,80	740	755	****	****	2	****	*	457	2	1	****		M
JAN 2,81	JAN 1,81	740	755	****	****	2	****	*	458	2	1	****		
JAN 7,81	JAN 6,81	740	755	****	****	2	****	*	459	2	1	****		M
JAN 16,81	JAN 15,81	740	755	****	****	2	****	*	460	2	1	****		
JAN 26,81	JAN 25,81	740	755	****	****	1	****	*	2537	2	1	****		M
FEB 2,81	FEB 1,81	745	755	****	****	2	****	*	461	2	1	****		
MAY 6,81	MAY 5,81	740	755	2000	200	1	3.0	1	28301	2	1	82		
MAY 10,81	MAY 9,81	815	830	700	830	1	2.1	1	28302	2	1	101		
MAY 11,81	MAY 10,81	740	755	800	800	1	15.1	1	28303	2	1	95	AD	
MAY 12,81	MAY 11,81	740	755	****	****	1	10.3	1	28304	2	1	94	D	J
MAY 15,81	MAY 14,81	740	755	1800	400	1	2.4	1	28305	2	1	89		
MAY 16,81	MAY 15,81	900	915	****	****	1	1.1	1	28306	2	1	49		
MAY 26,81	MAY 25,81	800	745	****	****	1	3.2	1	28307	2	1	82		
MAY 27,81	MAY 26,81	720	755	****	****	1	2.3	1	28308	2	1	91	D	
MAY 28,81	MAY 27,81	755	740	2200	300	1	6.0	1	28309	2	1	89		
MAY 30,81	MAY 29,81	800	945	100	500	1	6.0	1	28310	2	1	97		
JUN 3,81	JUN 2,81	755	740	****	****	1	1.0	1	28311	2	1	74		
JUN 4,81	JUN 3,81	755	740	755	740	1	3.2	1	28312	2	1	83		
JUN 9,81	JUN 8,81	745	750	****	****	1	20.0	1	28313	2	1	97	D	
JUN 11,81	JUN 10,81	715	740	****	****	1	3.0	1	28314	2	1	55		
JUN 13,81	JUN 12,81	800	800	1300	1600	1	0.4	1	28315	2	1	105		
JUN 16,81	JUN 15,81	730	755	1500	1700	1	22.5	1	28316	2	1	116	G	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : BALSAM LAKE/DAILY/AEROCHEM #06

SAMPLE DATE	INITIAL DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ MG/L	SULPHATE MG/L	NITRATE AS N MG/L
NOV 22,80	NOV 21,80	137.	31.5	*****	4.29	*****	2.60	0.90
NOV 24,80	NOV 23,80	57.	52.0	*****	4.28	*****	3.40	0.91
NOV 25,80	NOV 24,80	115.	42.6	*****	4.28	*****	2.80	0.95
NOV 26,80	NOV 25,80	155.	9.8	*****	4.76	*****	0.20	0.41
NOV 29,80	NOV 28,80	250.	18.5	*****	4.33	*****	0.90	0.48
NOV 30,80	NOV 29,80	435.	6.8	4.67	4.84	0.047	0.55	0.11
DEC 2,80	DEC 1,80	334.	41.3	*****	4.00	0.120	1.85	1.16
DEC 3,80	DEC 2,80	1304.	26.5	4.26	4.20	0.085	1.70	0.32
DEC 8,80	DEC 7,80	421.	31.5	3.98	4.03	0.124	2.30	0.44
DEC 9,80	DEC 8,80	826.	17.6	4.24	4.28	0.091	1.50	0.16
DEC 11,80	DEC 10,80	255.	4.7	*****	5.33	*****	0.55	0.16
DEC 12,80	DEC 11,80	11.	*****	*****	*****	*****	*****	*****
DEC 13,80	DEC 12,80	454.	14.8	4.33	4.34	0.076	0.60	0.40
DEC 14,80	DEC 13,80	110.	*****	*****	4.85	*****	0.60	0.15
DEC 18,80	DEC 17,80	89.	*****	*****	4.43	*****	0.60	0.53
DEC 19,80	DEC 18,80	72.	*****	*****	4.97	*****	*****	*****
DEC 21,80	DEC 20,80	31.	*****	*****	*****	*****	*****	*****
DEC 24,80	DEC 23,80	349.	16.6	4.20	4.54	0.053	0.60	0.47
DEC 29,80	DEC 28,80	445.	14.7	4.23	4.53	0.051	0.25	0.36
JAN 2,81	JAN 1,81	92.	*****	*****	4.53	*****	0.20	0.36
JAN 7,81	JAN 6,81	226.	14.4	*****	4.47	0.058	0.80	> 2.00
JAN 16,81	JAN 15,81	74.	*****	*****	3.75	*****	3.25	0.55
JAN 26,81	JAN 25,81	159.	45.3	*****	4.00	0.131	0.60	0.82
FEB 2,81	FEB 1,81	496.	23.8	4.31	4.36	0.083	1.10	0.49
MAY 6,81	MAY 5,81	159.	*****	*****	4.37	*****	2.45	0.46
MAY 10,81	MAY 9,81	137.	*****	*****	3.72	*****	8.40	1.39
MAY 11,81	MAY 10,81	924.	38.0	4.81	6.02	0.138	7.30	0.84
MAY 12,81	MAY 11,81	626.	18.0	U 4.90	4.37	0.077	1.60	0.23
MAY 15,81	MAY 14,81	137.	*****	*****	4.24	*****	2.75	0.28
MAY 16,81	MAY 15,81	35.	*****	*****	3.56	*****	11.50	1.54
MAY 26,81	MAY 25,81	170.	*****	*****	4.19	*****	2.70	0.38
MAY 27,81	MAY 26,81	135.	*****	*****	5.92	*****	2.20	0.54
MAY 28,81	MAY 27,81	344.	45.9	3.95	3.95	0.138	4.40	0.52
MAY 30,81	MAY 29,81	374.	40.0	4.11	4.15	0.106	4.85	0.71
JUN 3,81	JUN 2,81	48.	*****	*****	3.52	*****	14.20	1.95
JUN 4,81	JUN 3,81	172.	*****	*****	3.59	*****	12.50	1.52
JUN 9,81	JUN 8,81	1247.	33.1	4.32	4.36	0.082	4.70	0.62
JUN 11,81	JUN 10,81	106.	*****	*****	4.65	*****	1.80	0.25
JUN 13,81	JUN 12,81	27.	*****	*****	5.86	*****	*****	*****
JUN 16,81	JUN 15,81	1674.	12.5	4.67	4.79	0.046	1.25	0.23

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : BALSAM LAKE/DAILY/AEROCHEM #06

SAMPLE DATE	INITIAL DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
NOV 22,80	NOV 21,80	0.47	0.17	0.075	0.040	0.030	*****
NOV 24,80	NOV 23,80	*****	0.39	*****	*****	*****	*****
NOV 25,80	NOV 24,80	0.12	U 2.58	0.020	0.320	> 1.000	*****
NOV 26,80	NOV 25,80	0.21	0.02	0.015	0.040	0.020	0.112
NOV 29,80	NOV 28,80	0.03	0.55	< 0.005	0.010	0.030	0.092
NOV 30,80	NOV 29,80	0.02	0.03	< 0.005	0.010	0.020	0.102
DEC 2,80	DEC 1,80	0.15	0.23	0.010	0.020	0.040	0.380
DEC 3,80	DEC 2,80	0.02	0.08	< 0.005	0.010	0.010	0.214
DEC 8,80	DEC 7,80	0.05	0.05	0.005	< 0.010	0.020	0.210
DEC 9,80	DEC 8,80	0.01	0.02	< 0.005	< 0.010	0.010	0.076
DEC 11,80	DEC 10,80	0.41	< 0.01	0.010	0.010	0.030	0.056
DEC 12,80	DEC 11,80	*****	*****	*****	*****	*****	*****
DEC 13,80	DEC 12,80	0.06	0.06	0.005	< 0.010	0.020	0.114
DEC 14,80	DEC 13,80	*****	0.05	*****	*****	*****	0.042
DEC 18,80	DEC 17,80	0.30	0.42	0.045	0.040	0.110	0.062
DEC 19,80	DEC 18,80	0.17	*****	0.015	0.010	0.060	0.050
DEC 21,80	DEC 20,80	*****	*****	*****	*****	*****	*****
DEC 24,80	DEC 23,80	0.03	0.19	0.010	0.010	0.050	0.154
DEC 29,80	DEC 28,80	0.04	0.70	< 0.005	0.020	0.080	0.082
JAN 2,81	JAN 1,81	*****	0.13	*****	< 0.010	0.030	0.028
JAN 7,81	JAN 6,81	0.03	0.51	0.010	0.020	0.020	0.044
JAN 16,81	JAN 15,81	0.08	0.35	< 0.005	< 0.010	0.040	*****
JAN 26,81	JAN 25,81	0.15	0.25	0.010	< 0.010	0.140	0.014
FEB 2,81	FEB 1,81	0.04	0.20	0.010	0.150	0.190	0.098
MAY 6,81	MAY 5,81	0.42	0.12	0.070	0.010	0.030	0.254
MAY 10,81	MAY 9,81	0.79	0.31	0.120	0.020	0.050	0.410
MAY 11,81	MAY 10,81	0.49	0.67	0.110	0.700	0.570	3.300
MAY 12,81	MAY 11,81	0.10	0.58	0.005	0.010	0.060	0.130
MAY 15,81	MAY 14,81	*****	0.06	*****	*****	*****	0.042
MAY 16,81	MAY 15,81	*****	0.40	*****	*****	*****	*****
MAY 26,81	MAY 25,81	0.21	0.12	0.020	0.030	0.040	0.204
MAY 27,81	MAY 26,81	*****	0.09	*****	*****	*****	0.900
MAY 28,81	MAY 27,81	0.03	0.11	0.005	0.030	0.030	0.284
MAY 30,81	MAY 29,81	0.37	0.26	0.060	0.030	0.110	0.820
JUN 3,81	JUN 2,81	*****	0.51	*****	*****	*****	*****
JUN 4,81	JUN 3,81	0.49	0.36	0.075	0.030	0.040	1.010
JUN 9,81	JUN 8,81	0.95	0.22	0.145	0.050	0.090	0.630
JUN 11,81	JUN 10,81	0.24	0.61	0.030	0.040	0.560	0.072
JUN 13,81	JUN 12,81	*****	*****	*****	*****	*****	*****
JUN 16,81	JUN 15,81	0.12	0.23	0.025	0.020	0.120	0.254

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : BALSAM LAKE/DAILY/AEROCHEM #06

SAMPLE DATE	INITIAL DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
JUN 17,81	JUN 16,81	755	745	1700	1800	1	1.3	1	28317	2	1	86		
JUN 22,81	JUN 21,81	755	740	400	740	1	16.3	1	28318	2	1	102		
JUN 23,81	JUN 22,81	755	740	****	****	1	21.2	1	28319	2	1	97		
JUN 25,81	JUN 24,81	755	745	30	1430	1	0.3	1	28320	2	1	187		
JUN 26,81	JUN 25,81	745	755	30	2245	1	0.4	1	28321	2	1	120		
JUN 30,81	JUN 29,81	755	745	1850	2100	1	6.0	1	28322	2	1	103		
JUL 2,81	JUL 1,81	755	745	845	1145	1	1.0	1	28323	2	1	26	C	
JUL 3,81	JUL 2,81	755	745	1630	1800	1	0.4	1	28324	2	1	46	C	
JUL 6,81	JUL 5,81	755	745	1400	1500	1	0.3	1	28325	2	1	119		
JUL 18,81	JUL 17,81	755	1045	1945	2100	1	6.4	1	28326	2	1	91		
JUL 20,81	JUL 19,81	750	740	1630	300	1	2.3	1	28327	2	1	82	C	
JUL 29,81	JUL 28,81	750	745	1000	755	1	20.0	1	28328	2	1	94		
AUG 4,81	AUG 3,81	745	750	****	****	1	4.0	1	28329	2	1	83		
AUG 5,81	AUG 4,81	730	745	30	2245	1	8.0	1	28330	2	1	87		
AUG 9,81	AUG 8,81	730	830	100	1700	1	12.2	1	28331	2	1	93	A	
AUG 11,81	AUG 10,81	750	745	1300	745	1	11.0	1	28332	2	1	86		
AUG 15,81	AUG 14,81	750	915	2335	915	1	31.2	1	28333	2	1	71	G	
AUG 16,81	AUG 15,81	915	930	915	1130	1	3.3	1	28334	2	1	89		
AUG 24,81	AUG 23,81	755	745	1930	2200	1	4.0	1	28335	2	1	76		
AUG 27,81	AUG 26,81	745	750	630	750	1	2.2	1	28336	2	1	97		
AUG 29,81	AUG 28,81	755	930	1830	500	1	7.4	1	28337	2	1	95		
SEP 2,81	SEP 1,81	750	745	130	745	1	12.2	1	28338	2	1	91		
SEP 3,81	SEP 2,81	745	755	745	1130	1	2.4	1	28339	2	1	104		
SEP 4,81	SEP 3,81	750	755	2200	755	1	19.2	1	28340	2	1	95	Q	
SEP 5,81	SEP 4,81	755	910	2230	700	1	20.2	1	28341	2	1	98	C	
SEP 6,81	SEP 5,81	910	1000	1800	2200	1	1.1	1	28342	2	1	****	E	
SEP 8,81	SEP 7,81	755	745	1130	745	1	28.6	1	28343	2	1	74		
SEP 9,81	SEP 8,81	750	755	750	755	1	8.0	1	28344	2	1	90		
SEP 10,81	SEP 9,81	755	745	2300	700	1	2.1	1	28345	2	1	89	CJ	
SEP 11,81	SEP 10,81	755	745	830	1015	1	2.0	1	28346	2	1	106	C	
SEP 27,81	SEP 26,81	755	755	830	630	1	22.0	1	28347	2	1	99		
SEP 28,81	SEP 27,81	855	745	1130	430	1	1.2	1	28348	2	1	83		
OCT 2,81	OCT 1,81	755	745	1000	700	1	8.0	1	28349	2	1	77		
OCT 5,81	OCT 4,81	755	745	630	730	1	1.4	1	28350	2	1	74		
OCT 6,81	OCT 5,81	745	750	500	745	1	5.3	1	28351	2	1	110		
OCT 7,81	OCT 6,81	750	755	830	1630	1	15.4	1	28352	2	1	71		
OCT 8,81	OCT 7,81	755	745	915	1400	1	1.4	1	28353	2	1	22		
OCT 16,81	OCT 15,81	750	745	830	1130	1	1.4	1	28354	2	1	27		
OCT 18,81	OCT 17,81	830	1030	215	930	1	14.1	1	28355	2	1	108		
OCT 19,81	OCT 18,81	1030	640	****	****	1	3.0	1	28356	2	1	63		N

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : BALSAM LAKE/DAILY/AEROCHEM #06

SAMPLE DATE	INITIAL DATE		VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ MG/L	SULPHATE MG/L	NITRATE AS N MG/L
JUN 17,81	JUN 16,81		72.	*****	*****	5.45	*****	*****	0.69
JUN 22,81	JUN 21,81		1066.	16.8	4.35	4.47	0.068	1.50	0.21
JUN 23,81	JUN 22,81		1320.	11.3	4.52	4.58	0.061	1.15	0.05
JUN 25,81	JUN 24,81		36.	*****	*****	4.58	*****	*****	*****
JUN 26,81	JUN 25,81		31.	*****	*****	4.26	*****	*****	*****
JUN 30,81	JUN 29,81		398.	30.5	4.30	4.33	0.083	4.20	0.52
JUL 2,81	JUL 1,81		17.	*****	*****	3.98	*****	*****	*****
JUL 3,81	JUL 2,81		12.	*****	*****	4.68	*****	*****	*****
JUL 6,81	JUL 5,81		23.	*****	*****	4.02	*****	*****	*****
JUL 18,81	JUL 17,81		375.	21.0	4.62	4.83	0.046	3.20	0.58
JUL 20,81	JUL 19,81		122.	*****	*****	3.43	*****	14.50	1.80
JUL 29,81	JUL 28,81		1215.	24.0	4.12	4.28	0.085	2.15	0.23
AUG 4,81	AUG 3,81		215.	*****	*****	4.45	0.064	1.65	0.27
AUG 5,81	AUG 4,81		447.	30.9	4.08	4.22	0.090	3.55	0.39
AUG 9,81	AUG 8,81		728.	40.7	3.91	4.08	0.115	3.75	0.43
AUG 11,81	AUG 10,81		610.	26.4	4.15	4.33	0.081	2.45	0.44
AUG 15,81	AUG 14,81		1420.	*****	*****	4.14	*****	*****	*****
AUG 16,81	AUG 15,81		190.	*****	*****	3.96	*****	5.70	0.34
AUG 24,81	AUG 23,81		197.	*****	*****	4.00	*****	4.90	0.52
AUG 27,81	AUG 26,81		138.	*****	*****	4.07	*****	4.90	0.70
AUG 29,81	AUG 28,81		451.	97.0	3.53	3.70	0.251	10.50	0.53
SEP 2,81	SEP 1,81		719.	45.4	3.83	3.98	0.128	4.05	0.52
SEP 3,81	SEP 2,81		161.	*****	*****	3.88	*****	7.60	0.61
SEP 4,81	SEP 3,81		1170.	46.0	3.81	3.98	0.133	4.05	0.43
SEP 5,81	SEP 4,81		1273.	29.7	4.14	4.16	0.094	2.45	0.29
SEP 6,81	SEP 5,81		*****	*****	*****	*****	*****	*****	*****
SEP 8,81	SEP 7,81		1366.	26.5	4.22	4.26	0.080	2.40	0.34
SEP 9,81	SEP 8,81		464.	31.0	4.12	4.12	0.098	2.35	0.35
SEP 10,81	SEP 9,81		120.	*****	*****	6.14	*****	2.20	0.33
SEP 11,81	SEP 10,81		137.	*****	*****	6.14	*****	4.10	0.64
SEP 27,81	SEP 26,81		1401.	73.0	3.79	3.83	0.182	7.30	0.74
SEP 28,81	SEP 27,81		64.	*****	*****	5.33	*****	1.35	0.14
OCT 2,81	OCT 1,81		397.	21.0	4.33	4.39	0.075	1.85	0.24
OCT 5,81	OCT 4,81		67.	*****	*****	4.32	*****	2.00	0.28
OCT 6,81	OCT 5,81		374.	34.0	4.08	4.13	0.107	2.20	0.60
OCT 7,81	OCT 6,81		704.	26.2	4.20	4.27	0.086	2.00	0.35
OCT 8,81	OCT 7,81		20.	*****	*****	4.47	*****	*****	*****
OCT 16,81	OCT 15,81		25.	*****	*****	4.15	*****	*****	*****
OCT 18,81	OCT 17,81		984.	21.3	4.28	4.38	0.073	1.60	0.24
OCT 19,81	OCT 18,81	U	123.	*****	*****	5.04	*****	0.80	0.07

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : BALSAM LAKE/DAILY/AEROCHEM #06

SAMPLE DATE	INITIAL DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
JUN 17,81	JUN 16,81	*****	0.25	*****	*****	*****	*****
JUN 22,81	JUN 21,81	0.01	0.01	0.015	< 0.010	0.010	0.220
JUN 23,81	JUN 22,81	0.02	0.05	0.010	0.030	0.020	0.084
JUN 25,81	JUN 24,81	*****	*****	*****	*****	*****	*****
JUN 26,81	JUN 25,81	*****	*****	*****	*****	*****	*****
JUN 30,81	JUN 29,81	0.70	0.12	0.110	0.010	0.020	0.690
JUL 2,81	JUL 1,81	*****	*****	*****	*****	*****	*****
JUL 3,81	JUL 2,81	*****	*****	*****	*****	*****	*****
JUL 6,81	JUL 5,81	*****	*****	*****	*****	*****	*****
JUL 18,81	JUL 17,81	1.06	0.34	0.225	0.040	0.260	0.328
JUL 20,81	JUL 19,81	0.35	0.39	0.035	0.040	0.090	0.940
JUL 29,81	JUL 28,81	0.08	0.27	0.010	0.030	0.200	0.052
AUG 4,81	AUG 3,81	0.16	0.21	0.015	0.010	0.100	0.064
AUG 5,81	AUG 4,81	0.12	0.23	0.015	0.030	0.150	0.540
AUG 9,81	AUG 8,81	0.08	0.09	0.010	0.010	0.020	0.230
AUG 11,81	AUG 10,81	0.22	0.25	0.035	0.020	0.160	0.344
AUG 15,81	AUG 14,81	*****	*****	*****	*****	*****	*****
AUG 16,81	AUG 15,81	0.12	0.11	0.015	0.010	0.570	0.360
AUG 24,81	AUG 23,81	0.22	0.13	0.025	0.020	0.020	0.320
AUG 27,81	AUG 26,81	0.59	0.14	0.100	0.030	< 0.010	0.400
AUG 29,81	AUG 28,81	0.08	0.13	0.015	0.020	< 0.010	0.490
SEP 2,81	SEP 1,81	0.08	0.13	< 0.005	0.030	0.050	0.308
SEP 3,81	SEP 2,81	0.05	0.10	< 0.005	0.020	0.050	1.110
SEP 4,81	SEP 3,81	0.03	0.07	< 0.005	0.010	0.010	0.204
SEP 5,81	SEP 4,81	0.02	0.04	< 0.005	< 0.010	< 0.010	0.108
SEP 6,81	SEP 5,81	*****	*****	*****	*****	*****	*****
SEP 8,81	SEP 7,81	0.07	0.05	< 0.005	< 0.010	< 0.010	0.338
SEP 9,81	SEP 8,81	0.04	0.08	< 0.005	< 0.010	< 0.010	0.102
SEP 10,81	SEP 9,81	0.55	0.07	0.075	0.050	0.110	0.690
SEP 11,81	SEP 10,81	1.20	0.10	0.185	0.060	0.100	1.190
SEP 27,81	SEP 26,81	0.11	0.16	0.045	0.030	0.050	0.610
SEP 28,81	SEP 27,81	*****	0.02	*****	*****	*****	*****
OCT 2,81	OCT 1,81	0.02	0.01	< 0.005	< 0.010	< 0.010	0.182
OCT 5,81	OCT 4,81	*****	0.07	*****	*****	*****	*****
OCT 6,81	OCT 5,81	0.08	0.09	0.005	< 0.010	< 0.010	0.150
OCT 7,81	OCT 6,81	0.02	0.04	< 0.005	< 0.010	< 0.010	0.244
OCT 8,81	OCT 7,81	*****	*****	*****	*****	*****	*****
OCT 16,81	OCT 15,81	*****	*****	*****	*****	*****	*****
OCT 18,81	OCT 17,81	0.06	0.10	0.010	< 0.010	0.060	0.122
OCT 19,81	OCT 18,81	*****	0.02	*****	*****	*****	0.196

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : BALSAM LAKE/DAILY/AEROCHEM #06

SAMPLE DATE	INITIAL DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
OCT 22,81	OCT 21,81	750	745	2200	600	2	****	*	28357	2	1	****		
OCT 23,81	OCT 22,81	745	745	1530	215	2	****	*	28358	2	1	****		
OCT 26,81	OCT 25,81	755	745	100	800	1	4.0	1	28359	2	1	27	C	N
OCT 28,81	OCT 27,81	745	750	2215	430	1	12.1	1	28360	2	1	57		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : BALSAM LAKE/DAILY/AEROCHEM #06

SAMPLE DATE	INITIAL DATE		VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ MG/L	SULPHATE MG/L	NITRATE AS N MG/L
OCT 22,81	OCT 21,81		303.	7.0	*****	4.78	0.048	0.60	0.10
OCT 23,81	OCT 22,81		741.	5.2	4.92	4.96	0.036	0.25	0.09
OCT 26,81	OCT 25,81	U	71.	*****	*****	4.06	*****	2.55	0.63
OCT 28,81	OCT 27,81		445.	12.4	4.49	4.54	0.054	1.10	0.10

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : BALSAM LAKE/DAILY/AEROCHEM #06

SAMPLE DATE	INITIAL DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
OCT 22,81	OCT 21,81	0.10	0.07	< 0.005	0.030	0.050	0.056
OCT 23,81	OCT 22,81	0.03	< 0.01	< 0.005	< 0.010	< 0.010	0.026
OCT 26,81	OCT 25,81	*****	0.30	*****	*****	*****	*****
OCT 28,81	OCT 27,81	0.05	< 0.01	< 0.005	0.020	< 0.010	0.004

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : BALSAM LAKE/DAILY/SES #06 PAGE : 1

SAMPLE DATE	INITIAL DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
FEB 2,81	FEB 1,81	745	758	****	****	2	****	*	462	2	1	****		
FEB 3,81	FEB 2,81	745	800	****	****	2	****	*	463	2	1	****		
FEB 6,81	FEB 5,81	740	755	****	****	2	****	*	2538	2	1	****	E	
FEB 7,81	FEB 6,81	830	845	****	****	2	****	*	464	2	1	****		M
FEB 8,81	FEB 7,81	930	945	****	****	2	****	*	2497	2	1	****	E	
FEB 11,81	FEB 10,81	740	755	****	****	3	****	*	465	2	1	****		
FEB 12,81	FEB 11,81	745	800	****	****	2	****	*	466	2	1	****		
FEB 17,81	FEB 16,81	740	755	****	****	1	16.0	1	467	2	1	17		N
FEB 20,81	FEB 19,81	745	800	****	****	1	6.3	2	1567	2	1	91		
FEB 21,81	FEB 20,81	845	900	****	****	1	7.0	2	1568	2	1	115		
FEB 23,81	FEB 22,81	740	755	****	****	1	0.8	2	1569	2	1	170		N
FEB 24,81	FEB 23,81	740	755	****	****	1	3.2	2	1570	2	1	313		N
FEB 25,81	FEB 24,81	740	755	****	****	2	1.4	2	1571	2	1	93		
FEB 28,81	FEB 27,81	900	915	****	****	2	0.7	2	1572	2	1	157		N
MAR 1,81	FEB 28,81	900	915	****	****	2	0.7	2	1573	2	1	55		
MAR 2,81	MAR 1,81	730	745	****	****	2	0.7	2	1574	2	1	73		
MAR 5,81	MAR 4,81	730	745	****	****	2	3.9	2	1575	2	1	86		
MAR 7,81	MAR 6,81	900	915	****	****	2	1.0	2	1576	2	1	82		
MAR 14,81	MAR 13,81	900	915	****	****	2	2.3	2	1577	2	1	79		
MAR 17,81	MAR 16,81	740	735	****	****	2	5.6	2	1578	2	1	97		M
MAR 20,81	MAR 19,81	745	800	****	****	2	0.8	2	1579	2	1	93		
MAR 30,81	MAR 29,81	740	755	****	****	1	7.2	2	1580	2	1	117	CD	
MAR 31,81	MAR 30,81	740	755	****	****	1	13.0	2	1581	2	1	114		
APR 2,81	APR 1,81	740	755	****	****	1	1.8	2	1582	2	1	213	CD	N
APR 4,81	APR 3,81	930	945	****	****	1	5.7	2	1583	2	1	148	C	N
APR 9,81	APR 8,81	840	855	****	****	1	****	*	2077	2	1	****	CDQ	EC
APR 11,81	APR 10,81	900	915	****	****	1	11.2	2	2078	2	1	112		
APR 14,81	APR 13,81	740	755	****	****	1	11.1	2	2079	2	1	117		
APR 17,81	APR 16,81	830	845	300	700	1	4.9	2	2080	2	1	132	C	N
APR 18,81	APR 17,81	900	915	1000	2400	1	9.5	2	2081	2	1	135	C	N
APR 20,81	APR 19,81	900	915	2200	300	3	0.8	2	2082	2	1	189	C	N
APR 24,81	APR 23,81	740	755	2200	700	1	5.4	1	2083	2	1	113	AC	
APR 25,81	APR 24,81	900	915	800	1100	3	6.0	1	2084	2	1	97		
APR 29,81	APR 28,81	1000	1015	2000	400	1	5.0	1	2085	2	1	96	A	
NOV 6,81	NOV 5,81	725	745	200	745	1	2.2	1	28361	2	1	31	CG	N
NOV 7,81	NOV 6,81	755	845	30	2300	2	****	*	28362	2	1	****	CG	M
NOV 17,81	NOV 16,81	750	745	1230	730	1	24.3	1	28363	2	1	117		
NOV 18,81	NOV 17,81	748	745	845	2130	1	3.1	1	28364	2	1	54	C	
NOV 20,81	NOV 19,81	745	750	300	730	2	7.1	2	28365	2	1	91		
NOV 21,81	NOV 20,81	750	930	930	2030	2	12.0	2	28366	2	1	84		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : BALSAM LAKE/DAILY/SES #06

SAMPLE DATE	INITIAL DATE		VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ MG/L	SULPHATE MG/L	NITRATE AS N MG/L
FEB 2,81	FEB 1,81		1391.	15.0	4.36	4.58	0.051	0.80	0.31
FEB 3,81	FEB 2,81		96.	*****	*****	4.21	*****	2.10	1.10
FEB 6,81	FEB 5,81		41.	*****	*****	*****	*****	*****	*****
FEB 7,81	FEB 6,81		328.	38.3	*****	4.16	0.114	1.00	1.06
FEB 8,81	FEB 7,81		25.	*****	*****	*****	*****	*****	*****
FEB 11,81	FEB 10,81		2811.	13.7	4.33	4.54	0.059	0.90	0.26
FEB 12,81	FEB 11,81		436.	22.8	4.10	4.29	0.082	1.05	0.54
FEB 17,81	FEB 16,81	U	453.	58.0	4.06	4.07	0.129	6.20	1.20
FEB 20,81	FEB 19,81		946.	61.0	3.78	3.92	0.158	4.40	1.21
FEB 21,81	FEB 20,81		1330.	13.2	4.35	4.59	0.054	0.80	0.26
FEB 23,81	FEB 22,81		224.	*****	*****	4.26	0.084	3.80	0.51
FEB 24,81	FEB 23,81		1644.	17.6	4.20	4.45	0.063	1.30	0.30
FEB 25,81	FEB 24,81		214.	*****	*****	4.46	0.073	3.70	1.56
FEB 28,81	FEB 27,81		181.	*****	*****	4.06	*****	10.00	1.42
MAR 1,81	FEB 28,81		64.	*****	*****	3.51	*****	13.50	3.40
MAR 2,81	MAR 1,81		84.	*****	*****	4.52	*****	5.95	0.73
MAR 5,81	MAR 4,81		555.	43.4	4.14	4.14	0.109	1.95	1.38
MAR 7,81	MAR 6,81		135.	*****	*****	5.80	*****	1.00	0.16
MAR 14,81	MAR 13,81		301.	25.5	*****	6.70	0.038	4.35	0.67
MAR 17,81	MAR 16,81		895.	9.9	6.23	6.58	0.032	0.90	0.25
MAR 20,81	MAR 19,81		122.	*****	*****	6.28	*****	1.15	0.17
MAR 30,81	MAR 29,81		1392.	45.5	4.24	4.31	0.095	7.35	0.85
MAR 31,81	MAR 30,81		2434.	27.5	4.25	4.31	0.083	3.15	0.35
APR 2,81	APR 1,81		631.	38.5	4.24	4.37	0.089	5.70	0.79
APR 4,81	APR 3,81		1383.	35.5	4.28	4.58	*****	6.45	0.76
APR 9,81	APR 8,81		327.	77.0	7.09	7.36	0.040	10.15	1.97
APR 11,81	APR 10,81		2060.	34.0	4.09	4.27	0.099	4.15	0.83
APR 14,81	APR 13,81		2136.	22.0	4.25	4.39	0.074	2.25	0.35
APR 17,81	APR 16,81		1066.	15.4	5.24	5.79	0.036	2.95	0.55
APR 18,81	APR 17,81		2114.	33.0	4.04	4.38	0.091	4.07	0.92
APR 20,81	APR 19,81		249.	26.0	*****	4.52	0.076	4.35	0.41
APR 24,81	APR 23,81		1001.	56.0	3.89	3.98	0.144	6.55	1.10
APR 25,81	APR 24,81		959.	14.7	4.41	4.58	0.059	1.05	0.26
APR 29,81	APR 28,81		788.	47.8	3.97	4.16	0.121	5.90	0.96
NOV 6,81	NOV 5,81	U	114.	*****	*****	5.03	*****	8.70	1.76
NOV 7,81	NOV 6,81		195.	*****	*****	4.72	*****	0.70	0.09
NOV 17,81	NOV 16,81		4680.	6.3	4.84	4.94	0.048	0.55	0.05
NOV 18,81	NOV 17,81		276.	23.0	*****	4.34	0.086	2.40	0.20
NOV 20,81	NOV 19,81		1065.	17.3	4.41	4.39	0.106	1.35	0.22
NOV 21,81	NOV 20,81		1660.	31.1	4.16	4.20	0.106	1.55	0.51

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : BALSAM LAKE/DAILY/SES #06 PAGE : 3

SAMPLE DATE	INITIAL DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
FEB 2,81	FEB 1,81	0.14	0.20	0.005	< 0.010	0.060	0.138
FEB 3,81	FEB 2,81	0.30	0.37	0.025	0.010	0.170	*****
FEB 6,81	FEB 5,81	*****	*****	*****	*****	*****	*****
FEB 7,81	FEB 6,81	0.17	0.44	0.035	0.020	0.090	0.128
FEB 8,81	FEB 7,81	*****	*****	*****	*****	*****	*****
FEB 11,81	FEB 10,81	0.07	0.08	0.005	< 0.010	0.050	0.068
FEB 12,81	FEB 11,81	0.11	0.05	0.010	< 0.010	0.030	0.038
FEB 17,81	FEB 16,81	1.20	1.69	0.170	0.090	1.400	0.640
FEB 20,81	FEB 19,81	0.27	0.23	0.020	0.020	0.060	0.590
FEB 21,81	FEB 20,81	0.10	0.04	0.010	< 0.010	0.010	0.018
FEB 23,81	FEB 22,81	0.40	0.94	0.125	0.060	0.740	0.330
FEB 24,81	FEB 23,81	0.04	0.13	0.005	0.010	0.060	0.122
FEB 25,81	FEB 24,81	1.10	0.31	0.175	0.040	0.090	1.250
FEB 28,81	FEB 27,81	2.20	0.45	0.160	0.110	0.350	1.450
MAR 1,81	FEB 28,81	*****	0.45	*****	*****	*****	*****
MAR 2,81	MAR 1,81	*****	0.32	*****	*****	*****	1.210
MAR 5,81	MAR 4,81	0.64	0.58	0.100	0.030	0.110	0.480
MAR 7,81	MAR 6,81	0.56	0.21	0.035	0.030	0.130	0.100
MAR 14,81	MAR 13,81	2.60	0.40	0.310	0.090	0.250	0.540
MAR 17,81	MAR 16,81	0.81	0.12	0.135	0.010	0.040	0.380
MAR 20,81	MAR 19,81	1.11	0.38	0.055	0.010	0.250	0.024
MAR 30,81	MAR 29,81	1.54	0.48	0.215	0.080	0.370	0.910
MAR 31,81	MAR 30,81	0.11	0.03	0.015	0.020	0.030	0.450
APR 2,81	APR 1,81	1.28	0.27	0.145	0.070	0.120	0.790
APR 4,81	APR 3,81	1.84	0.44	0.255	0.130	0.270	0.670
APR 9,81	APR 8,81	10.00	1.03	1.150	0.520	0.610	1.450
APR 11,81	APR 10,81	0.85	0.23	0.125	0.040	0.150	0.600
APR 14,81	APR 13,81	0.15	0.05	0.025	0.030	0.090	0.242
APR 17,81	APR 16,81	1.42	0.13	0.165	0.040	0.060	0.342
APR 18,81	APR 17,81	0.56	0.05	0.075	0.090	0.140	1.140
APR 20,81	APR 19,81	0.70	0.05	0.095	0.200	0.070	0.680
APR 24,81	APR 23,81	1.25	0.14	0.060	0.070	0.050	0.670
APR 25,81	APR 24,81	0.05	0.03	< 0.005	< 0.010	0.020	0.194
APR 29,81	APR 28,81	1.27	0.20	0.065	0.050	0.060	0.810
NOV 6,81	NOV 5,81	4.20	0.26	0.425	0.070	0.190	*****
NOV 7,81	NOV 6,81	0.12	< 0.01	0.010	< 0.010	0.020	0.180
NOV 17,81	NOV 16,81	0.09	< 0.01	0.005	< 0.010	0.020	0.070
NOV 18,81	NOV 17,81	0.05	< 0.01	< 0.005	0.010	0.070	0.370
NOV 20,81	NOV 19,81	0.08	< 0.01	< 0.005	< 0.010	0.010	0.162
NOV 21,81	NOV 20,81	0.03	< 0.01	< 0.005	< 0.010	< 0.010	0.186

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : BALSAM LAKE/DAILY/SES #06 PAGE : 4

SAMPLE DATE	INITIAL DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
NOV 23,81	NOV 22,81	750	745	1300	2200	2	1.3	2	28367	2	1	68	C	
NOV 27,81	NOV 26,81	750	745	1830	715	1	15.0	2	28368	2	1	61		
NOV 28,81	NOV 27,81	750	900	****	2400	2	****	*	28369	2	1	****	C	
DEC 2,81	DEC 1,81	750	745	30	1800	1	****	*	28370	2	1	****		
DEC 8,81	DEC 7,81	845	930	30	830	2	****	*	28371	2	1	****		
DEC 10,81	DEC 9,81	745	755	30	730	2	****	*	28372	2	1	****	C	
DEC 15,81	DEC 14,81	755	830	****	1930	2	****	*	28373	2	1	****		
DEC 22,81	DEC 21,81	745	750	1300	400	2	7.0	2	28374	2	1	72		
DEC 23,81	DEC 22,81	750	755	400	755	2	8.0	2	28375	2	1	32	G	N
DEC 28,81	DEC 27,81	930	1020	1300	2330	2	5.0	2	28376	2	1	70	G	
DEC 29,81	DEC 28,81	1020	745	1300	2300	2	2.0	2	28377	2	1	103		
JAN 1,82	DEC 31,81	755	930	2000	2345	2	6.2	2	28378	2	1	84		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : BALSAM LAKE/DAILY/SES #06

SAMPLE DATE	INITIAL DATE		VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ MG/L	SULPHATE MG/L	NITRATE AS N MG/L
NOV 23,81	NOV 22,81		145.	*****	*****	4.24	*****	2.10	0.14
NOV 27,81	NOV 26,81		1500.	34.7	4.15	4.17	0.127	3.10	0.52
NOV 28,81	NOV 27,81		95.	*****	*****	6.54	*****	6.15	0.89
DEC 2,81	DEC 1,81		210.	*****	*****	3.97	*****	5.50	1.40
DEC 8,81	DEC 7,81		405.	63.5	3.99	4.05	0.180	4.65	2.16
DEC 10,81	DEC 9,81		290.	6.5	*****	5.01	0.052	0.30	0.05
DEC 15,81	DEC 14,81		275.	89.5	*****	3.73	0.252	6.60	1.86
DEC 22,81	DEC 21,81		835.	16.7	4.50	4.72	0.084	1.15	0.44
DEC 23,81	DEC 22,81	U	430.	10.3	4.52	4.64	0.059	0.25	0.18
DEC 28,81	DEC 27,81		575.	27.2	4.12	4.16	0.110	1.50	0.80
DEC 29,81	DEC 28,81		340.	23.7	*****	4.20	0.096	0.45	0.59
JAN 1,82	DEC 31,81		860.	34.5	4.13	4.11	0.119	2.25	0.66

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : BALSAM LAKE/DAILY/SES #06

SAMPLE DATE	INITIAL DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
NOV 23,81	NOV 22,81	0.12	0.03	0.015	< 0.010	0.090	0.052
NOV 27,81	NOV 26,81	0.08	0.04	0.020	0.010	0.070	0.370
NOV 28,81	NOV 27,81	*****	0.10	*****	*****	*****	0.670
DEC 2,81	DEC 1,81	1.56	0.35	0.100	0.050	0.080	*****
DEC 8,81	DEC 7,81	1.68	0.60	0.125	0.080	0.160	1.170
DEC 10,81	DEC 9,81	0.20	0.11	0.020	0.020	0.060	*****
DEC 15,81	DEC 14,81	1.12	0.84	0.140	0.060	0.400	*****
DEC 22,81	DEC 21,81	0.72	0.52	0.070	0.010	0.240	0.054
DEC 23,81	DEC 22,81	0.02	0.14	< 0.005	0.010	0.010	0.018
DEC 28,81	DEC 27,81	0.36	0.18	0.025	0.030	0.070	0.224
DEC 29,81	DEC 28,81	0.06	0.09	< 0.005	0.010	0.040	0.044
JAN 1,82	DEC 31,81	0.21	0.09	0.020	0.020	0.100	0.216

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NITHGROVE/DAILY/AEROCHEM #07

SAMPLE DATE	INITIAL DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
MAY 6,81	MAY 5,81	730	730	1600	1900	1	5.0	1	28001	2	1	89		
MAY 10,81	MAY 9,81	800	900	1300	1430	1	0.8	1	28002	2	1	58	C	
MAY 11,81	MAY 10,81	800	730	1200	2300	1	23.8	1	28003	2	1	89		
MAY 12,81	MAY 11,81	730	730	1000	1800	1	8.0	1	28004	2	1	71	C	M
MAY 13,81	MAY 12,81	730	730	1700	1800	1	3.0	1	28005	2	1	23		
MAY 15,81	MAY 14,81	730	800	100	200	1	2.6	1	28006	2	1	60	C	
MAY 25,81	MAY 24,81	730	730	2400	730	1	2.2	1	28007	2	1	53	C	
MAY 26,81	MAY 25,81	730	730	500	730	1	3.2	1	28008	2	1	73	D	
MAY 28,81	MAY 27,81	730	730	2400	500	1	6.6	1	28009	2	1	73	C	
JUN 4,81	JUN 3,81	800	800	2400	800	1	11.8	1	28010	2	1	94		
JUN 5,81	JUN 4,81	800	745	800	1800	1	3.8	1	28011	2	1	79		
JUN 6,81	JUN 5,81	745	800	100	500	1	11.0	1	28012	2	1	99	D	
JUN 9,81	JUN 8,81	730	730	****	****	1	10.0	1	28013	2	1	96		
JUN 15,81	JUN 14,81	730	800	1800	2200	1	2.8	1	28014	2	1	72	D	
JUN 16,81	JUN 15,81	730	730	****	****	1	18.8	1	28015	2	1	106	D	
JUN 17,81	JUN 16,81	800	800	2400	200	1	1.6	1	28016	2	1	40		
JUN 22,81	JUN 21,81	730	730	****	730	1	9.0	1	28017	2	1	79	C	
JUN 23,81	JUN 22,81	730	730	400	2000	1	29.0	1	28018	2	1	85		
JUN 25,81	JUN 24,81	730	800	1100	1430	1	4.7	1	28019	2	1	89	C	
JUN 30,81	JUN 29,81	730	730	1800	730	1	5.2	1	28020	2	1	92		
JUL 1,81	JUN 30,81	730	800	****	****	1	2.0	1	28021	2	1	61	A	
JUL 5,81	JUL 4,81	730	830	****	****	1	5.4	1	28022	2	1	95	A	
JUL 14,81	JUL 13,81	730	730	1500	1700	1	6.2	1	28023	2	1	99		
JUL 29,81	JUL 28,81	730	730	1100	1700	1	8.8	1	28024	2	1	85		
AUG 5,81	AUG 4,81	730	730	1900	2300	1	35.0	1	28025	2	1	97		
AUG 8,81	AUG 7,81	730	800	1900	700	1	7.2	1	28026	2	1	97	C	
AUG 9,81	AUG 8,81	730	800	900	1700	1	15.2	1	28027	2	1	47		N
AUG 11,81	AUG 10,81	730	730	1400	1600	1	4.6	1	28028	2	1	76	CJ	
AUG 15,81	AUG 14,81	730	800	300	800	1	19.4	1	28029	2	1	97		
AUG 24,81	AUG 23,81	830	830	****	2400	1	3.9	1	28030	2	1	77		
AUG 29,81	AUG 28,81	800	800	2100	800	1	15.1	1	28031	2	1	89		
AUG 30,81	AUG 29,81	800	800	1900	****	1	13.1	1	28032	2	1	98		
AUG 31,81	AUG 30,81	800	800	****	****	1	15.8	1	28033	2	1	96		
SEP 2,81	SEP 1,81	800	800	800	800	1	35.0	1	28034	2	1	94		
SEP 3,81	SEP 2,81	800	800	****	****	1	3.0	1	28035	2	1	56		
SEP 4,81	SEP 3,81	800	800	****	****	1	18.0	1	28036	2	1	88		
SEP 5,81	SEP 4,81	800	800	****	****	1	5.0	1	28037	2	1	96		
SEP 8,81	SEP 7,81	730	730	1000	1300	1	7.8	1	28038	2	1	87	J	
SEP 9,81	SEP 8,81	730	730	1200	1500	1	3.6	1	28039	2	1	60	C	
SEP 10,81	SEP 9,81	730	730	300	500	1	25.0	1	28040	2	1	164		M

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NITHGROVE/DAILY/AEROCHEM #07

SAMPLE DATE	INITIAL DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ MG/L	SULPHATE MG/L	NITRATE AS N MG/L
MAY 6,81	MAY 5,81	287.	31.6	*****	4.32	0.082	3.75	0.72
MAY 10,81	MAY 9,81	30.	*****	*****	3.77	*****	9.05	1.61
MAY 11,81	MAY 10,81	1370.	31.9	4.14	4.20	0.094	3.25	0.33
MAY 12,81	MAY 11,81	368.	15.6	4.45	4.56	0.063	2.30	0.21
MAY 13,81	MAY 12,81	45.	*****	*****	4.85	*****	3.35	0.16
MAY 15,81	MAY 14,81	100.	*****	*****	3.89	*****	7.10	0.68
MAY 25,81	MAY 24,81	76.	*****	*****	3.52	*****	13.20	2.14
MAY 26,81	MAY 25,81	151.	*****	*****	4.90	*****	3.20	0.55
MAY 28,81	MAY 27,81	310.	28.2	*****	4.31	0.080	3.50	0.58
JUN 4,81	JUN 3,81	716.	51.5	3.86	3.93	0.147	5.45	0.62
JUN 5,81	JUN 4,81	193.	*****	*****	4.18	*****	3.65	0.39
JUN 6,81	JUN 5,81	703.	21.4	4.65	5.00	0.049	3.60	0.74
JUN 9,81	JUN 8,81	616.	49.2	4.02	4.08	0.132	5.95	0.75
JUN 15,81	JUN 14,81	130.	*****	*****	4.30	*****	3.55	0.66
JUN 16,81	JUN 15,81	1289.	14.6	4.44	4.63	0.057	1.90	0.20
JUN 17,81	JUN 16,81	42.	*****	*****	6.57	*****	1.90	0.38
JUN 22,81	JUN 21,81	457.	25.9	4.19	4.31	0.077	1.90	0.49
JUN 23,81	JUN 22,81	1585.	8.2	4.74	4.87	0.042	0.95	0.04
JUN 25,81	JUN 24,81	270.	15.5	*****	5.28	0.044	2.50	0.32
JUN 30,81	JUN 29,81	309.	15.3	*****	4.52	0.060	1.35	0.24
JUL 1,81	JUN 30,81	79.	*****	*****	6.77	*****	0.70	0.16
JUL 5,81	JUL 4,81	332.	58.0	*****	4.16	0.129	6.75	0.73
JUL 14,81	JUL 13,81	397.	10.9	4.34	4.76	0.046	1.40	0.17
JUL 29,81	JUL 28,81	484.	26.6	4.10	4.21	0.087	2.20	0.32
AUG 5,81	AUG 4,81	2190.	15.9	4.34	4.58	0.054	1.65	0.19
AUG 8,81	AUG 7,81	450.	61.0	3.74	3.91	0.165	5.85	0.70
AUG 9,81	AUG 8,81	U 467.	27.4	4.09	4.24	0.086	2.30	0.30
AUG 11,81	AUG 10,81	227.	*****	*****	4.11	0.120	5.45	0.70
AUG 15,81	AUG 14,81	1212.	19.8	4.20	4.45	0.065	1.65	0.16
AUG 24,81	AUG 23,81	194.	*****	*****	4.04	*****	4.30	0.49
AUG 29,81	AUG 28,81	865.	82.5	3.57	3.76	0.209	8.55	0.63
AUG 30,81	AUG 29,81	825.	114.0	3.50	3.61	0.289	11.70	0.81
AUG 31,81	AUG 30,81	977.	70.0	3.68	3.87	0.174	7.65	0.63
SEP 2,81	SEP 1,81	2130.	61.0	3.73	3.87	0.171	5.65	0.62
SEP 3,81	SEP 2,81	108.	*****	*****	3.80	*****	8.20	0.87
SEP 4,81	SEP 3,81	1018.	16.6	4.16	4.48	0.059	1.40	0.15
SEP 5,81	SEP 4,81	310.	39.5	*****	4.09	0.112	3.25	0.48
SEP 8,81	SEP 7,81	436.	53.0	3.76	3.93	0.147	5.65	0.55
SEP 9,81	SEP 8,81	139.	*****	*****	4.21	*****	3.50	0.38
SEP 10,81	SEP 9,81	2638.	13.3	4.88	5.42	0.032	2.10	0.39

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NITHGROVE/DAILY/AEROCHEM #07 PAGE : 3

SAMPLE DATE	INITIAL DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
MAY 6,81	MAY 5,81	0.96	0.14	0.120	0.030	0.030	0.332
MAY 10,81	MAY 9,81	*****	0.53	*****	*****	*****	*****
MAY 11,81	MAY 10,81	0.08	0.20	0.015	0.020	0.100	0.318
MAY 12,81	MAY 11,81	0.24	0.74	0.025	0.110	0.380	0.070
MAY 13,81	MAY 12,81	*****	0.64	*****	*****	*****	*****
MAY 15,81	MAY 14,81	*****	0.29	*****	*****	*****	0.510
MAY 25,81	MAY 24,81	*****	0.92	*****	*****	*****	*****
MAY 26,81	MAY 25,81	0.82	0.36	0.075	0.320	0.200	0.700
MAY 28,81	MAY 27,81	0.26	0.22	0.040	0.110	0.130	0.630
JUN 4,81	JUN 3,81	0.13	0.14	0.020	0.040	0.030	0.450
JUN 5,81	JUN 4,81	0.13	0.19	0.020	0.080	0.070	0.358
JUN 6,81	JUN 5,81	1.10	0.19	0.200	0.090	0.050	0.830
JUN 9,81	JUN 8,81	0.51	0.30	0.090	0.060	0.170	0.820
JUN 15,81	JUN 14,81	0.38	0.28	0.060	0.110	0.190	0.610
JUN 16,81	JUN 15,81	0.14	0.26	0.030	0.040	0.210	0.272
JUN 17,81	JUN 16,81	*****	> 1.50	*****	*****	*****	*****
JUN 22,81	JUN 21,81	0.20	0.08	0.030	0.040	0.020	0.250
JUN 23,81	JUN 22,81	0.06	0.01	0.020	0.230	0.020	0.086
JUN 25,81	JUN 24,81	0.38	0.22	0.075	0.050	0.100	0.700
JUN 30,81	JUN 29,81	0.18	0.08	0.035	0.460	0.030	0.084
JUL 1,81	JUN 30,81	*****	0.22	*****	*****	*****	*****
JUL 5,81	JUL 4,81	0.27	0.36	0.090	< 0.010	0.080	1.340
JUL 14,81	JUL 13,81	0.12	0.05	0.025	0.030	0.010	0.266
JUL 29,81	JUL 28,81	0.14	0.11	0.020	0.050	0.040	0.068
AUG 5,81	AUG 4,81	0.05	0.05	0.010	0.020	0.010	0.260
AUG 8,81	AUG 7,81	0.33	0.18	0.020	0.040	0.030	0.384
AUG 9,81	AUG 8,81	0.08	0.13	0.010	0.030	0.060	0.144
AUG 11,81	AUG 10,81	0.58	0.20	0.125	0.280	0.050	0.660
AUG 15,81	AUG 14,81	0.02	0.03	< 0.005	0.020	0.010	0.130
AUG 24,81	AUG 23,81	0.24	0.13	0.040	0.040	0.030	0.330
AUG 29,81	AUG 28,81	0.10	0.15	0.010	0.030	0.050	0.500
AUG 30,81	AUG 29,81	0.16	0.22	0.015	0.060	0.040	0.740
AUG 31,81	AUG 30,81	0.07	0.13	0.010	0.030	0.040	0.800
SEP 2,81	SEP 1,81	0.09	0.15	0.010	0.040	0.030	0.330
SEP 3,81	SEP 2,81	*****	0.21	*****	*****	*****	0.880
SEP 4,81	SEP 3,81	0.02	0.03	< 0.005	0.010	0.010	0.056
SEP 5,81	SEP 4,81	0.10	0.11	0.010	0.060	0.040	0.108
SEP 8,81	SEP 7,81	0.18	0.13	0.040	0.100	0.050	0.440
SEP 9,81	SEP 8,81	0.08	0.24	0.005	0.030	0.020	0.590
SEP 10,81	SEP 9,81	0.46	0.08	0.085	0.050	0.030	0.670

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NITHGROVE/DAILY/AEROCHEM #07

SAMPLE DATE	INITIAL DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
SEP 12,81	SEP 11,81	730	730	200	600	1	10.0	1	28041	2	1	102	C	
SEP 20,81	SEP 19,81	730	800	1530	1800	1	4.0	1	28042	2	1	83	J	
SEP 27,81	SEP 26,81	730	800	2100	730	1	31.0	1	28043	2	1	100	J	
SEP 28,81	SEP 27,81	730	730	430	630	1	4.0	1	28044	2	1	75	CDJ	M
OCT 2,81	OCT 1,81	730	730	1100	1600	1	5.8	1	28045	2	1	123	CJ	
OCT 3,81	OCT 2,81	730	730	1000	1700	1	1.6	1	28046	2	1	61	C	
OCT 5,81	OCT 4,81	730	730	400	600	1	5.2	1	28047	2	1	94	CJ	
OCT 6,81	OCT 5,81	730	730	300	730	1	6.8	1	28048	2	1	92	CAJ	
OCT 7,81	OCT 6,81	730	730	1300	730	1	10.2	1	28049	2	1	95	J	
OCT 8,81	OCT 7,81	730	730	1100	1300	1	3.0	1	28050	2	1	64	C	
OCT 16,81	OCT 15,81	730	730	1700	1800	1	4.8	1	28051	2	1	59		
OCT 18,81	OCT 17,81	730	800	700	800	1	****	*	28052	2	1	****	GE	X
OCT 19,81	OCT 18,81	730	800	1200	1600	1	14.2	1	28053	2	1	69	GCJ	
OCT 20,81	OCT 19,81	730	730	400	600	2	5.0	1	28054	2	1	15	J	
OCT 23,81	OCT 22,81	730	730	1800	2400	2	7.5	3	28055	2	1	55	C	
OCT 24,81	OCT 23,81	730	730	1330	1530	2	17.0	1	28056	2	1	15	C	N

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NITHGROVE/DAILY/AEROCHEM #07

SAMPLE DATE	INITIAL DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ MG/L	SULPHATE MG/L	NITRATE AS N MG/L
SEP 12,81	SEP 11,81	656.	20.1	4.58	4.73	0.058	3.10	0.52
SEP 20,81	SEP 19,81	215.	*****	*****	4.82	0.046	3.15	0.57
SEP 27,81	SEP 26,81	2004.	34.0	4.08	4.20	0.096	3.30	0.36
SEP 28,81	SEP 27,81	194.	*****	*****	5.19	*****	2.80	0.23
OCT 2,81	OCT 1,81	460.	42.4	3.99	4.00	0.129	3.90	0.43
OCT 3,81	OCT 2,81	63.	*****	*****	5.28	*****	1.05	0.18
OCT 5,81	OCT 4,81	315.	12.5	*****	4.63	0.051	1.05	0.15
OCT 6,81	OCT 5,81	405.	32.0	4.16	4.24	0.091	2.70	0.66
OCT 7,81	OCT 6,81	626.	28.3	4.16	4.18	0.094	2.35	0.30
OCT 8,81	OCT 7,81	124.	*****	*****	5.14	*****	0.35	< 0.01
OCT 16,81	OCT 15,81	182.	*****	*****	4.03	*****	3.85	0.63
OCT 18,81	OCT 17,81	*****	*****	*****	*****	*****	*****	*****
OCT 19,81	OCT 18,81	635.	*****	*****	*****	*****	*****	*****
OCT 20,81	OCT 19,81	50.	*****	*****	*****	*****	*****	*****
OCT 23,81	OCT 22,81	268.	9.0	*****	6.57	0.028	0.55	0.13
OCT 24,81	OCT 23,81	U 168.	*****	*****	4.61	*****	0.85	0.29

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NITHGROVE/DAILY/AEROCHEM #07

SAMPLE DATE	INITIAL DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
SEP 12,81	SEP 11,81	0.63	0.14	0.110	0.060	0.040	0.630
SEP 20,81	SEP 19,81	0.63	0.14	0.150	0.080	0.080	0.680
SEP 27,81	SEP 26,81	0.15	0.06	0.020	0.020	0.010	0.600
SEP 28,81	SEP 27,81	0.44	0.04	0.090	0.140	0.030	0.196
OCT 2,81	OCT 1,81	0.12	0.12	0.015	0.040	0.080	0.032
OCT 3,81	OCT 2,81	*****	0.34	*****	*****	*****	*****
OCT 5,81	OCT 4,81	0.06	0.08	0.010	0.060	0.030	0.228
OCT 6,81	OCT 5,81	0.48	0.18	0.080	0.050	0.080	0.160
OCT 7,81	OCT 6,81	0.04	0.04	< 0.005	0.030	0.020	0.006
OCT 8,81	OCT 7,81	*****	0.04	*****	*****	*****	0.026
OCT 16,81	OCT 15,81	0.21	0.17	0.040	0.090	0.070	0.226
OCT 18,81	OCT 17,81	*****	*****	*****	*****	*****	*****
OCT 19,81	OCT 18,81	*****	*****	*****	*****	*****	*****
OCT 20,81	OCT 19,81	*****	*****	*****	*****	*****	*****
OCT 23,81	OCT 22,81	0.32	0.76	0.075	0.770	0.380	0.264
OCT 24,81	OCT 23,81	0.20	0.08	0.010	0.070	0.050	0.120

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NITHGROVE/DAILY/SES #07

SAMPLE DATE	INITIAL DATE	SAMPLING START/END HR.	SAMPLING START/END HR.	PRECIP START/END HR.	PRECIP START/END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
JAN 27.81	JAN 26.81	1500	800	****	****	3	****	*	468	2	1	****		
FEB 2.81	FEB 1.81	900	800	****	1000	2	****	*	469	2	1	****	G	
FEB 3.81	FEB 2.81	800	800	****	1215	2	****	*	470	2	1	****	D	
FEB 4.81	FEB 3.81	800	800	****	****	2	****	*	471	2	1	****	D	
FEB 6.81	FEB 5.81	800	800	****	****	2	****	*	2539	2	1	****	E	
FEB 7.81	FEB 6.81	803	802	****	****	2	****	*	472	2	1	****	C	
FEB 8.81	FEB 7.81	800	805	****	****	2	****	*	473	2	1	****	C	
FEB 9.81	FEB 8.81	800	800	****	****	2	****	*	2498	2	1	****	EC	
FEB 11.81	FEB 10.81	800	800	1100	800	3	****	*	474	2	1	****		
FEB 12.81	FEB 11.81	800	800	****	300	3	****	*	475	2	1	****	C	
FEB 13.81	FEB 12.81	800	800	****	****	2	****	*	2499	2	1	****	CE	
FEB 17.81	FEB 16.81	800	800	****	****	1	****	*	476	2	1	****	C	L
FEB 19.81	FEB 18.81	800	803	****	****	1	0.6	1	1539	2	1	107		
FEB 20.81	FEB 19.81	800	804	****	****	1	****	*	1540	2	1	****		
FEB 21.81	FEB 20.81	800	800	****	****	1	2.6	1	1541	2	1	93		
FEB 22.81	FEB 21.81	800	800	****	****	1	****	*	1542	2	1	****		
FEB 23.81	FEB 22.81	800	805	****	****	1	2.0	1	1543	2	1	97		
FEB 24.81	FEB 23.81	800	805	****	****	1	5.2	1	1544	2	1	109		
FEB 25.81	FEB 24.81	800	805	****	****	2	0.7	2	1545	2	1	78	C	
FEB 28.81	FEB 27.81	800	806	****	****	2	6.5	2	1546	2	1	78	C	
MAR 1.81	FEB 28.81	800	800	****	****	3	2.1	2	1547	2	1	84		
MAR 2.81	MAR 1.81	800	805	****	****	2	0.7	2	1548	2	1	78	C	
MAR 3.81	MAR 2.81	800	755	****	****	2	1.8	2	1549	2	1	45	C	N
MAR 4.81	MAR 3.81	800	806	****	****	2	1.0	2	1550	2	1	86	C	
MAR 5.81	MAR 4.81	800	1405	****	****	2	3.2	2	1551	2	1	65	C	
MAR 7.81	MAR 6.81	800	809	530	800	2	1.4	2	1552	2	1	49		N
MAR 11.81	MAR 10.81	800	800	430	800	2	1.5	2	1553	2	1	79		
MAR 12.81	MAR 11.81	800	805	800	1200	2	0.4	2	1554	2	1	53		
MAR 13.81	MAR 12.81	805	810	800	1200	2	2.3	2	1555	2	1	64		
MAR 14.81	MAR 13.81	800	820	900	1200	2	0.8	2	1556	2	1	59		
MAR 16.81	MAR 15.81	815	800	1200	1900	2	4.0	2	1557	2	1	75		
MAR 17.81	MAR 16.81	800	805	330	800	2	1.5	2	1558	2	1	32		N
MAR 20.81	MAR 19.81	805	805	****	730	2	2.3	2	1559	2	1	80	CD	
MAR 27.81	MAR 26.81	800	730	1900	2300	3	0.7	2	1560	2	1	171		N
MAR 30.81	MAR 29.81	800	800	2400	800	1	5.6	1	1561	2	1	116		
MAR 31.81	MAR 30.81	800	815	800	2200	1	14.0	1	1562	2	1	103		
APR 2.81	APR 1.81	800	745	900	1200	3	6.0	1	1563	2	1	97		
APR 4.81	APR 3.81	800	800	2230	330	1	10.4	1	1564	2	1	101	D	
APR 5.81	APR 4.81	800	815	1000	1200	1	1.2	1	1565	2	1	49	C	N
APR 6.81	APR 5.81	815	745	2400	1200	2	1.2	2	1566	2	1	56		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NITHGROVE/DAILY/SES #07

SAMPLE DATE	INITIAL DATE		VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ MG/L	SULPHATE MG/L	NITRATE AS N MG/L
JAN 27,81	JAN 26,81		170.	34.5	*****	4.62	*****	5.80	1.18
FEB 2,81	FEB 1,81		2217.	14.1	4.35	4.54	0.055	0.75	0.25
FEB 3,81	FEB 2,81		113.	64.0	*****	3.88	*****	4.40	1.90
FEB 4,81	FEB 3,81		109.	*****	*****	4.32	*****	1.00	0.71
FEB 6,81	FEB 5,81		49.	*****	*****	*****	*****	*****	*****
FEB 7,81	FEB 6,81		166.	*****	*****	4.08	0.114	1.00	1.24
FEB 8,81	FEB 7,81		251.	51.8	*****	3.96	0.150	2.05	1.49
FEB 9,81	FEB 8,81		25.	*****	*****	*****	*****	*****	*****
FEB 11,81	FEB 10,81		4783.	15.4	4.28	4.51	0.057	0.90	0.25
FEB 12,81	FEB 11,81		322.	32.7	*****	4.18	0.099	2.55	0.59
FEB 13,81	FEB 12,81		32.	*****	*****	*****	*****	*****	*****
FEB 17,81	FEB 16,81		306.	96.0	*****	3.72	0.238	8.00	1.40
FEB 19,81	FEB 18,81		106.	*****	*****	3.47	*****	10.80	2.90
FEB 20,81	FEB 19,81		26.	*****	*****	*****	*****	*****	*****
FEB 21,81	FEB 20,81		399.	22.5	4.13	4.34	0.074	1.75	0.33
FEB 22,81	FEB 21,81		49.	*****	*****	*****	*****	*****	*****
FEB 23,81	FEB 22,81		321.	34.6	*****	4.37	0.077	3.40	0.73
FEB 24,81	FEB 23,81		937.	25.2	4.21	4.34	0.083	2.05	0.47
FEB 25,81	FEB 24,81		90.	*****	*****	4.30	*****	4.80	2.01
FEB 28,81	FEB 27,81		839.	13.3	4.64	4.76	0.046	1.45	0.36
MAR 1,81	FEB 28,81		292.	129.5	*****	3.57	0.311	9.50	2.95
MAR 2,81	MAR 1,81		90.	*****	*****	4.17	*****	5.10	0.59
MAR 3,81	MAR 2,81	U	134.	*****	*****	4.50	*****	1.90	0.06
MAR 4,81	MAR 3,81		141.	*****	*****	4.90	*****	0.50	0.73
MAR 5,81	MAR 4,81		343.	*****	3.96	4.00	*****	2.45	1.46
MAR 7,81	MAR 6,81	U	114.	*****	*****	5.20	*****	0.20	0.10
MAR 11,81	MAR 10,81		195.	*****	*****	4.30	*****	2.00	0.31
MAR 12,81	MAR 11,81		35.	*****	*****	4.37	*****	2.75	0.18
MAR 13,81	MAR 12,81		242.	*****	5.63	6.16	*****	2.90	0.84
MAR 14,81	MAR 13,81		78.	*****	*****	4.34	*****	2.35	0.13
MAR 16,81	MAR 15,81		494.	17.8	4.73	5.60	0.037	2.95	0.72
MAR 17,81	MAR 16,81	U	80.	*****	*****	5.58	*****	0.70	0.29
MAR 20,81	MAR 19,81		302.	U 78.5	*****	4.86	0.038	0.55	0.10
MAR 27,81	MAR 26,81		197.	*****	*****	3.84	*****	5.75	2.30
MAR 30,81	MAR 29,81		1074.	51.0	3.95	4.17	0.120	6.90	0.93
MAR 31,81	MAR 30,81		2381.	26.4	4.18	4.32	0.084	3.00	0.33
APR 2,81	APR 1,81		957.	21.0	4.51	4.66	0.055	3.20	0.44
APR 4,81	APR 3,81		1724.	27.2	4.21	4.46	0.071	3.90	0.47
APR 5,81	APR 4,81	U	98.	*****	*****	6.86	*****	13.80	1.45
APR 6,81	APR 5,81		112.	*****	*****	4.30	*****	3.60	0.11

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NITHGROVE/DAILY/SES #07

SAMPLE DATE	INITIAL DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
JAN 27,81	JAN 26,81	1.01	0.40	0.165	0.230	0.200	1.540
FEB 2,81	FEB 1,81	0.07	0.11	0.005	0.010	0.030	0.100
FEB 3,81	FEB 2,81	0.37	0.38	0.020	0.070	0.150	1.120
FEB 4,81	FEB 3,81	*****	0.35	*****	*****	*****	0.078
FEB 6,81	FEB 5,81	*****	*****	*****	*****	*****	*****
FEB 7,81	FEB 6,81	0.39	0.32	0.020	0.060	0.100	0.126
FEB 8,81	FEB 7,81	0.38	0.57	0.030	0.040	0.120	0.370
FEB 9,81	FEB 8,81	*****	*****	*****	*****	*****	*****
FEB 11,81	FEB 10,81	0.07	0.04	0.005	0.020	0.020	0.086
FEB 12,81	FEB 11,81	0.45	0.22	0.020	0.100	0.110	0.214
FEB 13,81	FEB 12,81	*****	*****	*****	*****	*****	*****
FEB 17,81	FEB 16,81	0.28	1.26	0.110	0.090	0.720	0.540
FEB 19,81	FEB 18,81	*****	1.22	*****	*****	*****	1.770
FEB 20,81	FEB 19,81	*****	*****	*****	*****	*****	*****
FEB 21,81	FEB 20,81	0.04	0.06	< 0.005	0.020	0.040	0.110
FEB 22,81	FEB 21,81	*****	*****	*****	*****	*****	*****
FEB 23,81	FEB 22,81	0.48	0.90	*****	0.130	1.170	0.540
FEB 24,81	FEB 23,81	0.26	0.25	0.020	0.060	0.130	0.226
FEB 25,81	FEB 24,81	*****	0.51	*****	*****	*****	1.300
FEB 28,81	FEB 27,81	0.55	0.19	0.050	0.070	0.120	0.214
MAR 1,81	FEB 28,81	0.59	0.94	0.065	0.130	0.190	1.800
MAR 2,81	MAR 1,81	*****	0.26	*****	*****	*****	0.850
MAR 3,81	MAR 2,81	0.11	0.05	0.020	0.020	0.060	0.118
MAR 4,81	MAR 3,81	0.81	0.30	0.095	0.050	0.130	0.138
MAR 5,81	MAR 4,81	0.35	0.48	0.040	0.040	0.060	0.730
MAR 7,81	MAR 6,81	0.14	0.14	0.020	0.030	0.090	< 0.002
MAR 11,81	MAR 10,81	0.15	0.08	0.020	0.040	0.040	0.106
MAR 12,81	MAR 11,81	*****	0.22	*****	*****	*****	*****
MAR 13,81	MAR 12,81	1.34	0.14	0.255	0.090	0.120	0.780
MAR 14,81	MAR 13,81	*****	0.17	*****	*****	*****	0.060
MAR 16,81	MAR 15,81	1.02	0.20	0.125	0.090	0.100	0.860
MAR 17,81	MAR 16,81	*****	0.16	*****	*****	*****	0.220
MAR 20,81	MAR 19,81	0.09	0.38	0.015	0.030	0.240	0.030
MAR 27,81	MAR 26,81	1.08	0.43	0.075	0.100	0.150	1.130
MAR 30,81	MAR 29,81	1.04	0.44	0.180	0.100	0.300	1.050
MAR 31,81	MAR 30,81	0.45	0.08	0.015	0.040	0.050	0.348
APR 2,81	APR 1,81	0.75	0.12	0.110	0.050	0.080	0.410
APR 4,81	APR 3,81	0.79	0.17	0.100	0.060	0.090	0.420
APR 5,81	APR 4,81	*****	0.88	*****	*****	*****	*****
APR 6,81	APR 5,81	*****	0.04	*****	*****	*****	0.154

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NITHGROVE/DAILY/SES #07

SAMPLE DATE	INITIAL DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
APR 9,81	APR 8,81	800	750	1800	800	1	13.4	1	2066	2	1	103	C	
APR 10,81	APR 9,81	750	755	100	300	1	0.6	1	2067	2	1	74		
APR 11,81	APR 10,81	755	815	330	600	1	1.8	1	2068	2	1	111	CD	L
APR 14,81	APR 13,81	800	800	400	800	1	10.0	1	2069	2	1	102		
APR 15,81	APR 14,81	800	800	800	1200	1	7.5	1	2070	2	1	87		
APR 17,81	APR 16,81	800	800	****	530	1	2.2	1	2071	2	1	109	CA	M
APR 18,81	APR 17,81	800	800	100	300	1	5.4	1	2072	2	1	98	C	
APR 20,81	APR 19,81	800	800	1730	1800	3	1.5	2	2073	2	1	77	A	
APR 24,81	APR 23,81	730	750	1000	1300	1	7.0	1	2074	2	1	110	C	
APR 25,81	APR 24,81	730	1015	900	1200	1	3.0	1	2075	2	1	77	LC	
APR 29,81	APR 28,81	730	730	900	2300	1	7.4	1	2076	2	1	43	C	N
OCT 19,81	OCT 18,81	730	800	1200	****	1	14.2	1	28053	2	1	27	CJG	N
OCT 20,81	OCT 19,81	730	730	400	600	2	5.0	1	28054	2	1	6	J	
NOV 6,81	NOV 5,81	730	730	600	730	1	1.0	1	28057	2	1	103		
NOV 7,81	NOV 6,81	730	630	1200	1500	3	****	*	28058	2	1	****	C	
NOV 11,81	NOV 10,81	730	830	400	830	3	0.5	1	28059	2	1	48	C	
NOV 19,81	NOV 16,81	730	730	400	630	1	20.0	2	28060	2	1	13	G	N
NOV 20,81	NOV 19,81	730	730	****	****	2	2.4	2	28061	2	1	73	GC	
NOV 21,81	NOV 20,81	730	730	600	730	2	14.4	2	28062	2	1	78	G	M
NOV 27,81	NOV 26,81	730	730	2300	200	3	****	2	28063	2	1	****		
NOV 28,81	NOV 27,81	730	730	1300	1600	1	2.8	2	28064	2	1	94		
DEC 2,81	DEC 1,81	730	745	1400	1600	1	4.0	2	28065	2	1	49		
DEC 3,81	DEC 2,81	745	730	1000	1200	1	1.8	2	28066	2	1	110		
DEC 4,81	DEC 3,81	730	730	1600	1700	1	0.8	2	28067	2	1	99	DC	EC
DEC 8,81	DEC 7,81	730	730	1800	2100	2	3.2	2	28068	2	1	73	G	
DEC 14,81	DEC 13,81	730	730	1100	1400	2	1.0	2	28069	2	1	91		
DEC 15,81	DEC 14,81	730	730	1200	1600	2	4.4	2	28070	2	1	93	C	
DEC 19,81	DEC 18,81	730	730	400	600	2	0.5	2	28071	2	1	176		N
DEC 22,81	DEC 21,81	730	800	1100	1400	2	5.0	2	28072	2	1	54	C	
DEC 23,81	DEC 22,81	730	800	100	600	2	5.2	2	28073	2	1	87	C	
DEC 25,81	DEC 24,81	730	800	1500	830	2	10.0	2	28074	2	1	57	C	
DEC 26,81	DEC 25,81	800	800	730	1300	2	3.0	2	28075	2	1	56	C	
DEC 28,81	DEC 27,81	730	830	****	****	2	6.0	2	28076	2	1	45	C	N
DEC 29,81	DEC 28,81	830	800	1300	1600	2	1.4	2	28077	2	1	84	C	
JAN 1,82	DEC 31,81	830	900	2300	200	2	18.0	2	28078	2	1	16		N

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NITHGROVE/DAILY/SES #07

SAMPLE DATE	INITIAL DATE		VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ MG/L	SULPHATE MG/L	NITRATE AS N MG/L
APR 9,81	APR 8,81		2272.	32.5	4.44	4.78	0.059	5.50	0.98
APR 10,81	APR 9,81		73.	*****	*****	4.12	*****	3.55	0.33
APR 11,81	APR 10,81		329.	86.5	3.97	4.17	0.145	11.00	3.50
APR 14,81	APR 13,81		1686.	24.6	4.19	4.31	0.078	2.15	0.36
APR 15,81	APR 14,81		1070.	16.8	4.27	4.47	0.058	1.50	0.17
APR 17,81	APR 16,81		395.	23.4	6.23	6.88	0.023	3.45	0.86
APR 18,81	APR 17,81		875.	73.0	3.69	3.90	0.180	7.45	1.71
APR 20,81	APR 19,81		190.	*****	*****	4.66	*****	3.45	0.35
APR 24,81	APR 23,81		1271.	43.1	3.91	4.06	0.125	3.90	0.57
APR 25,81	APR 24,81		381.	18.5	4.16	4.44	0.069	1.10	0.24
APR 29,81	APR 28,81	U	530.	30.0	4.05	4.28	0.090	3.75	0.31
OCT 19,81	OCT 18,81	U	635.	14.2	*****	4.65	0.050	1.65	0.18
OCT 20,81	OCT 19,81		50.	*****	*****	4.40	*****	1.50	0.46
NOV 6,81	NOV 5,81		170.	*****	*****	3.81	0.206	*****	*****
NOV 7,81	NOV 6,81		1103.	7.2	4.78	5.00	0.038	0.80	0.13
NOV 11,81	NOV 10,81		40.	*****	*****	4.13	*****	> 10.00	> 2.00
NOV 19,81	NOV 16,81	U	455.	10.7	4.57	4.61	0.067	1.00	0.07
NOV 20,81	NOV 19,81		290.	14.6	*****	4.61	0.059	1.30	0.17
NOV 21,81	NOV 20,81		1850.	11.7	4.55	4.62	0.060	1.30	0.17
NOV 27,81	NOV 26,81		6650.	31.0	4.16	4.20	0.103	2.50	0.41
NOV 28,81	NOV 27,81		435.	43.1	3.99	4.01	0.134	3.00	0.78
DEC 2,81	DEC 1,81		325.	63.5	*****	3.88	0.185	4.25	1.43
DEC 3,81	DEC 2,81		325.	42.5	*****	4.08	0.123	3.15	0.94
DEC 4,81	DEC 3,81		130.	*****	*****	7.04	*****	4.95	0.01
DEC 8,81	DEC 7,81		385.	66.2	3.83	3.87	0.171	4.10	1.82
DEC 14,81	DEC 13,81		150.	73.0	*****	3.92	*****	5.80	1.82
DEC 15,81	DEC 14,81		675.	42.5	3.95	4.02	*****	1.80	1.10
DEC 19,81	DEC 18,81		145.	9.2	*****	5.52	*****	0.70	0.32
DEC 22,81	DEC 21,81		450.	11.4	4.74	4.78	0.076	0.80	0.37
DEC 23,81	DEC 22,81		750.	13.5	4.52	4.58	0.088	0.60	0.36
DEC 25,81	DEC 24,81		935.	20.6	4.34	4.40	0.087	1.00	0.59
DEC 26,81	DEC 25,81		280.	29.3	*****	4.21	0.108	1.15	0.90
DEC 28,81	DEC 27,81	U	445.	24.5	4.24	4.29	0.090	1.20	0.61
DEC 29,81	DEC 28,81		195.	29.8	*****	4.26	*****	1.50	0.89
JAN 1,82	DEC 31,81	U	480.	22.8	4.23	4.29	0.089	1.30	0.44

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NITHGROVE/DAILY/SES #07

SAMPLE DATE	INITIAL DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
APR 9,81	APR 8,81	1.39	0.30	0.290	0.130	0.220	1.200
APR 10,81	APR 9,81	0.17	0.11	0.025	0.090	0.090	*****
APR 11,81	APR 10,81	3.80	0.64	0.575	0.280	0.510	2.500
APR 14,81	APR 13,81	0.12	0.08	0.010	0.020	0.080	0.256
APR 15,81	APR 14,81	0.10	0.10	< 0.005	0.100	0.070	0.134
APR 17,81	APR 16,81	3.35	0.19	0.500	0.200	0.240	0.550
APR 18,81	APR 17,81	0.73	0.26	0.110	0.070	0.150	1.500
APR 20,81	APR 19,81	0.54	0.11	0.070	0.110	0.110	0.670
APR 24,81	APR 23,81	0.22	0.05	0.015	0.030	0.030	0.280
APR 25,81	APR 24,81	0.03	0.13	< 0.005	< 0.010	0.030	0.046
APR 29,81	APR 28,81	0.19	0.03	0.020	0.020	0.040	0.460
OCT 19,81	OCT 18,81	0.08	0.04	0.020	0.030	0.030	0.346
OCT 20,81	OCT 19,81	*****	0.17	*****	*****	*****	*****
NOV 6,81	NOV 5,81	1.27	*****	0.170	0.320	0.290	0.890
NOV 7,81	NOV 6,81	0.20	0.02	0.010	0.030	0.010	0.062
NOV 11,81	NOV 10,81	*****	1.80	*****	*****	*****	*****
NOV 19,81	NOV 16,81	0.03	< 0.01	0.005	< 0.010	0.060	0.074
NOV 20,81	NOV 19,81	0.11	< 0.01	0.020	0.060	0.020	0.176
NOV 21,81	NOV 20,81	0.02	< 0.01	< 0.005	< 0.010	0.020	0.084
NOV 27,81	NOV 26,81	0.14	0.05	0.010	0.010	0.060	0.268
NOV 28,81	NOV 27,81	0.12	< 0.01	0.015	0.020	0.040	0.376
DEC 2,81	DEC 1,81	0.48	0.18	0.025	0.100	0.060	0.600
DEC 3,81	DEC 2,81	0.20	0.04	0.020	0.050	0.050	0.700
DEC 4,81	DEC 3,81	1.55	16.40	0.290	8.200	*****	4.850
DEC 8,81	DEC 7,81	0.30	0.36	0.040	0.110	0.080	*****
DEC 14,81	DEC 13,81	0.56	0.38	0.125	0.070	0.100	*****
DEC 15,81	DEC 14,81	0.14	0.20	0.025	0.030	0.050	*****
DEC 19,81	DEC 18,81	0.46	0.20	0.040	0.210	0.070	*****
DEC 22,81	DEC 21,81	0.46	0.26	0.045	0.100	0.050	*****
DEC 23,81	DEC 22,81	0.15	0.10	0.025	0.070	0.060	*****
DEC 25,81	DEC 24,81	0.12	0.14	0.035	0.030	0.070	*****
DEC 26,81	DEC 25,81	0.13	0.30	0.030	0.130	0.120	*****
DEC 28,81	DEC 27,81	0.07	0.09	0.010	0.030	0.030	*****
DEC 29,81	DEC 28,81	0.25	0.28	0.040	0.160	0.090	*****
JAN 1,82	DEC 31,81	0.03	0.08	< 0.005	0.020	0.020	*****

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/AEROCHEM #08 PAGE : 1

SAMPLE DATE	INITIAL DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
JUL 15,80	JUL 14,80	830	815	1930	815	1	3.6	1	332	2	1	97		L
JUL 17,80	JUL 16,80	800	820	2400	200	1	5.0	1	333	2	1	101		
JUL 18,80	JUL 17,80	820	820	1200	1230	1	0.8	1	334	2	1	****	EFI	
JUL 19,80	JUL 18,80	820	800	500	630	1	0.9	1	335	2	1	43	G	
JUL 21,80	JUL 20,80	800	830	1200	830	1	10.2	1	336	2	1	100		
JUL 23,80	JUL 22,80	830	830	130	830	1	1.8	1	337	2	1	88		
JUL 24,80	JUL 23,80	830	845	830	845	1	0.4	1	338	2	1	****	E	
JUL 25,80	JUL 24,80	845	815	****	****	1	0.4	1	339	2	1	****	E	
JUL 26,80	JUL 25,80	815	800	1100	1200	1	9.6	1	340	2	1	26		N
JUL 27,80	JUL 26,80	800	800	2030	600	1	97.0	1	341	2	1	110	F	
JUL 28,80	JUL 27,80	800	830	100	600	1	4.2	1	342	2	1	92	F	
JUL 29,80	JUL 28,80	830	840	800	2100	1	39.6	1	343	2	1	103		
AUG 6,80	AUG 5,80	845	830	1700	1800	1	16.4	1	344	2	1	102	F	
AUG 9,80	AUG 7,80	820	800	1000	1700	1	4.2	1	345	2	1	102	AF	
AUG 12,80	AUG 11,80	825	820	2100	300	1	1.6	1	346	2	1	74	C	
AUG 15,80	AUG 13,80	800	800	800	1300	1	10.0	1	347	2	1	100		
AUG 22,80	AUG 21,80	800	830	700	830	1	7.9	1	348	2	1	101	A	M
AUG 23,80	AUG 22,80	830	800	800	1700	1	13.4	1	349	2	1	100		
AUG 27,80	AUG 26,80	800	840	200	300	1	8.2	1	350	2	1	93		
AUG 28,80	AUG 27,80	840	840	1900	2000	1	1.6	1	351	2	1	85		
AUG 29,80	AUG 28,80	840	900	700	800	1	0.8	1	352	2	1	99		
AUG 30,80	AUG 29,80	900	800	900	1400	1	16.7	1	353	2	1	97		
AUG 31,80	AUG 30,80	800	800	900	1000	1	12.5	1	354	2	1	100		
SEP 1,80	AUG 31,80	800	800	****	****	1	15.8	1	355	2	1	99		
SEP 2,80	SEP 1,80	800	830	****	****	1	1.6	1	356	2	1	78		
SEP 3,80	SEP 2,80	830	845	1300	1800	1	16.6	1	357	2	1	102		
SEP 10,80	SEP 9,80	800	840	1100	1700	1	6.8	1	358	2	1	83		
SEP 14,80	SEP 13,80	800	800	1100	2200	1	14.6	1	359	2	1	97		
SEP 15,80	SEP 14,80	800	845	1500	1600	1	1.0	1	360	2	1	68		
SEP 17,80	SEP 16,80	800	840	700	840	1	5.1	1	361	2	1	103		
SEP 18,80	SEP 17,80	840	840	840	1400	1	23.4	1	362	2	1	101		
SEP 23,80	SEP 22,80	840	840	1800	2200	1	11.4	1	363	2	1	100	A	
SEP 26,80	SEP 25,80	840	830	2000	2200	1	4.4	1	364	2	1	95		M
SEP 28,80	SEP 27,80	830	800	1400	2000	1	3.2	1	365	2	1	73		
OCT 2,80	OCT 1,80	800	830	500	700	1	19.0	1	366	2	1	102	C	
OCT 4,80	OCT 3,80	800	800	1500	1800	1	19.0	1	367	2	1	96		
OCT 5,80	OCT 4,80	800	800	1100	2100	1	6.0	1	368	2	1	76		
OCT 9,80	OCT 6,80	800	815	800	800	1	1.2	1	369	2	1	58		
OCT 12,80	OCT 11,80	800	800	****	2300	1	5.8	1	370	2	1	89		
OCT 18,80	OCT 17,80	800	800	1600	300	1	21.1	1	371	2	1	99		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/AEROCHEM #08

SAMPLE DATE	INITIAL DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ MG/L	SULPHATE MG/L	NITRATE AS N MG/L
JUL 15,80	JUL 14,80	224.	43.1	*****	4.04	0.095	5.45	1.30
JUL 17,80	JUL 16,80	325.	12.4	*****	4.64	0.047	0.85	0.26
JUL 18,80	JUL 17,80	*****	*****	*****	*****	*****	*****	*****
JUL 19,80	JUL 18,80	25.	*****	*****	4.16	*****	*****	*****
JUL 21,80	JUL 20,80	655.	24.9	4.15	4.31	0.077	2.45	0.44
JUL 23,80	JUL 22,80	102.	*****	*****	4.51	*****	1.60	0.21
JUL 24,80	JUL 23,80	*****	*****	*****	*****	*****	*****	*****
JUL 25,80	JUL 24,80	*****	*****	*****	*****	*****	*****	*****
JUL 26,80	JUL 25,80	U 161.	*****	*****	4.39	0.058	1.95	0.28
JUL 27,80	JUL 26,80	6893.	12.2	4.44	4.65	0.047	1.30	0.13
JUL 28,80	JUL 27,80	248.	*****	*****	3.80	*****	6.90	0.47
JUL 29,80	JUL 28,80	2628.	21.1	4.24	4.32	0.070	1.95	0.20
AUG 6,80	AUG 5,80	1080.	22.0	4.23	4.40	0.069	2.35	0.29
AUG 9,80	AUG 7,80	275.	39.0	*****	4.16	0.104	3.95	0.68
AUG 12,80	AUG 11,80	76.	*****	*****	4.41	*****	> 10.00	> 2.00
AUG 15,80	AUG 13,80	644.	79.0	3.72	3.69	0.212	6.45	1.25
AUG 22,80	AUG 21,80	512.	26.4	4.14	4.32	0.077	2.50	0.24
AUG 23,80	AUG 22,80	864.	29.1	4.22	4.14	0.088	2.75	0.24
AUG 27,80	AUG 26,80	493.	33.4	4.08	4.15	0.094	3.60	0.39
AUG 28,80	AUG 27,80	88.	*****	*****	3.31	*****	25.70	2.50
AUG 29,80	AUG 28,80	51.	*****	*****	3.73	*****	7.40	0.97
AUG 30,80	AUG 29,80	1046.	86.2	3.71	3.75	0.220	9.50	0.78
AUG 31,80	AUG 30,80	804.	76.5	3.76	3.80	U 0.079	8.00	0.68
SEP 1,80	AUG 31,80	1008.	42.4	3.99	4.06	0.114	4.45	0.51
SEP 2,80	SEP 1,80	80.	*****	*****	3.86	*****	5.30	0.96
SEP 3,80	SEP 2,80	1091.	9.6	4.64	4.69	0.041	0.80	0.11
SEP 10,80	SEP 9,80	364.	45.7	3.98	4.00	0.128	4.85	0.58
SEP 14,80	SEP 13,80	908.	43.0	3.92	4.05	0.127	4.55	0.36
SEP 15,80	SEP 14,80	44.	*****	*****	4.45	*****	*****	*****
SEP 17,80	SEP 16,80	337.	86.5	3.66	3.73	0.236	8.25	1.17
SEP 18,80	SEP 17,80	1529.	37.0	4.02	4.11	0.106	3.70	0.31
SEP 23,80	SEP 22,80	731.	U 43.6	4.40	4.54	0.053	0.90	0.44
SEP 26,80	SEP 25,80	268.	24.5	*****	4.37	0.088	4.75	0.61
SEP 28,80	SEP 27,80	151.	*****	*****	4.58	0.055	3.20	0.40
OCT 2,80	OCT 1,80	1250.	20.2	4.38	4.41	0.067	2.30	0.30
OCT 4,80	OCT 3,80	1171.	28.8	4.09	4.17	0.100	1.90	0.58
OCT 5,80	OCT 4,80	295.	19.8	*****	4.27	0.074	0.90	0.44
OCT 9,80	OCT 6,80	45.	*****	*****	4.00	*****	5.85	1.39
OCT 12,80	OCT 11,80	332.	10.0	*****	4.88	0.049	1.15	0.29
OCT 18,80	OCT 17,80	1345.	24.0	4.23	4.24	0.084	2.30	0.31

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/AEROCHEM #08

SAMPLE DATE	INITIAL DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
JUL 15,80	JUL 14,80	1.49	0.30	0.175	0.110	0.140	0.510
JUL 17,80	JUL 16,80	0.08	0.04	0.015	0.030	0.050	0.144
JUL 18,80	JUL 17,80	*****	*****	*****	*****	*****	*****
JUL 19,80	JUL 18,80	*****	*****	*****	*****	*****	*****
JUL 21,80	JUL 20,80	0.26	0.11	0.035	0.030	0.030	0.314
JUL 23,80	JUL 22,80	*****	0.12	*****	*****	*****	0.084
JUL 24,80	JUL 23,80	*****	*****	*****	*****	*****	*****
JUL 25,80	JUL 24,80	*****	*****	*****	*****	*****	*****
JUL 26,80	JUL 25,80	0.14	0.08	0.040	0.020	0.010	*****
JUL 27,80	JUL 26,80	0.02	0.02	< 0.005	< 0.010	0.010	0.242
JUL 28,80	JUL 27,80	0.11	0.18	0.020	0.030	0.040	0.254
JUL 29,80	JUL 28,80	0.02	0.04	< 0.005	0.010	0.010	0.110
AUG 6,80	AUG 5,80	0.10	0.07	0.015	0.010	0.030	0.280
AUG 9,80	AUG 7,80	0.36	0.16	0.050	0.030	0.090	0.510
AUG 12,80	AUG 11,80	*****	> 1.50	*****	*****	*****	*****
AUG 15,80	AUG 13,80	0.32	0.32	0.070	0.030	0.020	0.490
AUG 22,80	AUG 21,80	0.03	0.09	0.005	< 0.010	0.020	0.148
AUG 23,80	AUG 22,80	0.04	0.11	0.010	0.020	0.040	0.076
AUG 27,80	AUG 26,80	0.20	0.10	0.025	0.020	0.030	0.330
AUG 28,80	AUG 27,80	*****	0.48	*****	*****	*****	*****
AUG 29,80	AUG 28,80	*****	0.21	*****	*****	*****	*****
AUG 30,80	AUG 29,80	0.32	0.19	0.045	0.020	0.040	0.770
AUG 31,80	AUG 30,80	0.16	0.15	0.020	0.010	0.010	0.520
SEP 1,80	AUG 31,80	0.06	0.13	0.005	0.010	0.020	0.580
SEP 2,80	SEP 1,80	*****	0.14	*****	*****	*****	*****
SEP 3,80	SEP 2,80	< 0.01	0.03	< 0.005	< 0.010	< 0.010	0.110
SEP 10,80	SEP 9,80	0.14	0.11	0.015	< 0.010	0.010	0.470
SEP 14,80	SEP 13,80	0.07	0.08	0.005	0.010	0.010	0.314
SEP 15,80	SEP 14,80	*****	*****	*****	*****	*****	*****
SEP 17,80	SEP 16,80	0.14	0.23	0.020	0.020	0.020	0.900
SEP 18,80	SEP 17,80	0.01	0.08	< 0.005	< 0.010	< 0.010	0.440
SEP 23,80	SEP 22,80	0.14	0.04	0.015	< 0.010	0.010	0.138
SEP 26,80	SEP 25,80	0.09	0.14	0.020	0.030	0.090	0.168
SEP 28,80	SEP 27,80	0.29	0.09	0.050	0.020	0.020	*****
OCT 2,80	OCT 1,80	0.20	0.06	0.035	< 0.010	< 0.010	0.370
OCT 4,80	OCT 3,80	0.08	0.09	0.015	0.010	0.010	0.272
OCT 5,80	OCT 4,80	0.02	0.04	< 0.005	0.030	0.070	0.076
OCT 9,80	OCT 6,80	*****	0.30	*****	*****	*****	*****
OCT 12,80	OCT 11,80	0.19	< 0.01	0.015	0.020	0.040	0.290
OCT 18,80	OCT 17,80	0.11	0.05	0.020	0.010	0.190	0.240

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/AEROCHEM #08 PAGE : 4

SAMPLE DATE	INITIAL DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
OCT 19,80	OCT 18,80	800	800	1600	500	1	4.2	1	372	2	1	77	C	
OCT 20,80	OCT 19,80	800	800	1900	2130	1	1.4	1	373	2	1	51		
OCT 21,80	OCT 20,80	800	800	2100	530	3	3.4	1	374	2	1	83		
OCT 22,80	OCT 21,80	800	900	1300	1900	3	1.4	1	375	2	1	66		
OCT 25,80	OCT 24,80	800	800	700	800	1	1.2	1	376	2	1	70		
OCT 26,80	OCT 25,80	800	800	800	500	1	35.7	1	377	2	1	94		
OCT 27,80	OCT 26,80	800	800	800	1430	3	3.0	1	378	2	1	75		
NOV 4,80	OCT 31,80	800	1015	1200	1800	1	12.0	1	379	2	1	103		L
NOV 5,80	NOV 4,80	1015	930	1015	1500	3	4.8	1	380	2	1	94		M
NOV 7,80	NOV 6,80	845	815	****	****	3	4.2	1	381	2	1	87		L M
NOV 8,80	NOV 7,80	800	800	****	****	3	3.2	1	382	2	1	91		M
NOV 9,80	NOV 8,80	800	800	****	****	1	6.8	1	383	2	1	111		L
NOV 11,80	NOV 9,80	800	800	****	****	1	1.6	1	384	2	1	90		L
NOV 13,80	NOV 12,80	800	800	****	****	3	4.4	1	385	2	1	109	G	
NOV 14,80	NOV 13,80	800	800	****	****	3	12.2	1	386	2	1	102		
NOV 22,80	NOV 21,80	800	800	****	****	3	3.5	1	387	2	1	91		L
NOV 24,80	NOV 23,80	800	800	****	****	1	3.8	1	388	2	1	85		
NOV 25,80	NOV 24,80	800	800	800	800	3	3.6	1	389	2	1	58	CL	
NOV 29,80	NOV 28,80	800	800	****	****	2	5.0	2	390	2	1	190		N
NOV 30,80	NOV 29,80	800	800	****	****	2	1.2	2	391	2	1	163		N
DEC 2,80	DEC 1,80	800	800	****	****	2	4.4	2	392	2	1	93		
DEC 3,80	DEC 2,80	800	800	****	****	2	34.8	2	393	2	1	56		M
DEC 8,80	DEC 7,80	800	800	****	****	1	10.5	2	394	2	1	90		
DEC 9,80	DEC 8,80	800	800	****	****	1	12.2	2	395	2	1	103		M
DEC 11,80	DEC 9,80	800	800	****	****	2	4.8	2	396	2	1	61		M
DEC 13,80	DEC 12,80	800	800	****	****	2	6.6	2	397	2	1	82		
DEC 14,80	DEC 13,80	800	800	****	****	2	6.2	2	398	2	1	57		
DEC 16,80	DEC 15,80	800	800	****	****	2	0.6	2	399	2	1	57	C	
DEC 19,80	DEC 17,80	800	800	****	****	2	10.8	2	400	2	1	63	C	
DEC 23,80	DEC 22,80	800	800	****	****	2	3.2	2	401	2	1	53		L
DEC 24,80	DEC 23,80	800	820	****	****	2	4.0	2	402	2	1	59		L
DEC 29,80	DEC 28,80	800	800	****	****	2	11.8	2	403	2	1	96		L
JAN 2,81	JAN 1,81	800	800	****	****	2	3.2	2	404	2	1	51		L
JAN 7,81	JAN 6,81	800	830	****	****	2	7.4	2	405	2	1	77		L
JAN 16,81	JAN 15,81	800	820	****	****	2	3.0	2	406	2	1	75		L
JAN 17,81	JAN 16,81	820	800	****	****	2	1.2	2	408	2	1	26		
JAN 22,81	JAN 21,81	800	830	****	****	1	0.8	2	410	2	1	58		
JAN 23,81	JAN 22,81	830	815	****	****	2	1.2	2	412	2	1	40		
JAN 26,81	JAN 25,81	800	800	****	****	1	1.4	2	414	2	1	117		
JAN 27,81	JAN 26,81	830	800	1500	****	2	2.2	2	2525	2	1	56		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/AEROCHEM #08 PAGE : 5

SAMPLE DATE	INITIAL DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ MG/L	SULPHATE MG/L	NITRATE AS N MG/L
OCT 19,80	OCT 18,80	209.	12.4	*****	4.75	0.048	1.95	0.22
OCT 20,80	OCT 19,80	46.	*****	*****	5.62	*****	0.55	< 0.02
OCT 21,80	OCT 20,80	182.	*****	*****	4.57	0.049	1.00	0.13
OCT 22,80	OCT 21,80	60.	*****	*****	4.56	*****	1.40	0.12
OCT 25,80	OCT 24,80	54.	*****	*****	4.10	*****	2.25	0.71
OCT 26,80	OCT 25,80	2163.	5.8	4.76	4.80	0.036	0.40	0.09
OCT 27,80	OCT 26,80	145.	*****	*****	4.52	0.048	1.25	0.16
NOV 4,80	OCT 31,80	798.	33.5	4.14	4.20	0.097	3.20	0.76
NOV 5,80	NOV 4,80	290.	23.5	*****	4.36	0.078	2.10	0.52
NOV 7,80	NOV 6,80	235.	27.7	*****	4.59	*****	3.25	1.02
NOV 8,80	NOV 7,80	188.	25.5	*****	4.35	*****	1.90	0.76
NOV 9,80	NOV 8,80	484.	34.4	4.00	4.16	0.101	2.95	0.73
NOV 11,80	NOV 9,80	93.	104.0	*****	3.79	*****	10.80	3.45
NOV 13,80	NOV 12,80	310.	23.8	*****	4.30	0.072	2.00	0.34
NOV 14,80	NOV 13,80	802.	44.2	4.05	4.10	0.111	3.75	0.97
NOV 22,80	NOV 21,80	206.	46.4	*****	4.21	*****	3.70	1.54
NOV 24,80	NOV 23,80	209.	36.5	*****	4.11	*****	3.30	0.27
NOV 25,80	NOV 24,80	135.	56.0	*****	3.83	*****	3.65	1.59
NOV 29,80	NOV 28,80	610.	20.0	4.34	4.34	0.070	0.95	0.41
NOV 30,80	NOV 29,80	126.	16.5	*****	4.43	*****	1.10	0.23
DEC 2,80	DEC 1,80	265.	19.0	*****	4.38	*****	0.85	0.50
DEC 3,80	DEC 2,80	1251.	13.6	4.33	4.47	0.055	1.05	0.17
DEC 8,80	DEC 7,80	610.	28.0	3.96	4.25	0.098	2.65	0.19
DEC 9,80	DEC 8,80	810.	10.4	4.35	4.56	0.059	0.75	0.05
DEC 11,80	DEC 9,80	190.	*****	*****	4.69	*****	0.55	0.12
DEC 13,80	DEC 12,80	347.	12.7	4.36	4.55	0.062	0.80	0.31
DEC 14,80	DEC 13,80	227.	*****	*****	4.76	0.045	0.55	0.18
DEC 16,80	DEC 15,80	22.	*****	*****	4.55	*****	*****	*****
DEC 19,80	DEC 17,80	440.	13.8	4.50	4.48	0.070	0.80	0.38
DEC 23,80	DEC 22,80	109.	*****	*****	4.19	*****	0.35	0.62
DEC 24,80	DEC 23,80	153.	20.7	*****	4.27	*****	0.60	0.66
DEC 29,80	DEC 28,80	729.	12.4	4.35	4.46	0.067	0.30	0.32
JAN 2,81	JAN 1,81	105.	*****	*****	4.68	*****	0.20	0.26
JAN 7,81	JAN 6,81	369.	17.0	4.38	4.34	0.079	0.35	0.50
JAN 16,81	JAN 15,81	146.	*****	*****	3.86	*****	0.50	1.72
JAN 17,81	JAN 16,81	20.	*****	*****	4.00	*****	*****	*****
JAN 22,81	JAN 21,81	30.	*****	*****	3.69	*****	*****	*****
JAN 23,81	JAN 22,81	31.	*****	*****	4.34	*****	*****	*****
JAN 26,81	JAN 25,81	105.	*****	*****	3.94	*****	3.80	0.42
JAN 27,81	JAN 26,81	79.	*****	*****	4.40	*****	4.10	1.00

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/AEROCHEM #08

SAMPLE DATE	INITIAL DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
OCT 19,80	OCT 18,80	0.10	0.07	0.005	0.070	0.060	0.400
OCT 20,80	OCT 19,80	*****	< 0.01	*****	*****	*****	*****
OCT 21,80	OCT 20,80	0.04	< 0.01	< 0.005	0.050	< 0.010	0.070
OCT 22,80	OCT 21,80	*****	0.02	*****	*****	*****	*****
OCT 25,80	OCT 24,80	*****	0.15	*****	*****	*****	*****
OCT 26,80	OCT 25,80	0.02	< 0.01	0.005	< 0.010	0.010	0.014
OCT 27,80	OCT 26,80	0.05	0.05	0.010	0.040	0.150	0.018
NOV 4,80	OCT 31,80	0.46	0.59	0.085	0.050	0.030	0.510
NOV 5,80	NOV 4,80	0.08	0.65	0.015	0.030	0.020	0.460
NOV 7,80	NOV 6,80	0.83	0.65	0.145	0.080	0.040	1.050
NOV 8,80	NOV 7,80	0.29	0.69	0.045	0.070	0.040	0.480
NOV 9,80	NOV 8,80	0.24	0.12	0.020	0.040	0.030	0.470
NOV 11,80	NOV 9,80	*****	0.65	*****	*****	*****	*****
NOV 13,80	NOV 12,80	0.15	0.17	0.030	0.020	0.030	0.210
NOV 14,80	NOV 13,80	0.46	0.27	0.050	0.040	0.050	0.780
NOV 22,80	NOV 21,80	0.85	0.22	0.115	0.060	0.040	1.200
NOV 24,80	NOV 23,80	0.12	0.25	0.010	0.010	0.010	0.094
NOV 25,80	NOV 24,80	0.09	0.24	0.025	0.060	0.050	0.600
NOV 29,80	NOV 28,80	0.01	0.07	< 0.005	< 0.010	0.010	0.068
NOV 30,80	NOV 29,80	0.01	0.16	< 0.005	< 0.010	0.010	0.198
DEC 2,80	DEC 1,80	0.06	0.06	0.005	0.010	0.020	0.078
DEC 3,80	DEC 2,80	0.05	0.02	0.010	0.020	0.010	0.730
DEC 8,80	DEC 7,80	0.23	0.14	0.025	0.060	0.100	0.124
DEC 9,80	DEC 8,80	< 0.01	0.01	< 0.005	0.010	0.010	0.010
DEC 11,80	DEC 9,80	0.02	0.04	< 0.005	0.010	0.060	0.078
DEC 13,80	DEC 12,80	0.12	0.05	0.015	0.010	0.040	0.166
DEC 14,80	DEC 13,80	0.10	0.05	0.015	0.010	0.030	0.094
DEC 16,80	DEC 15,80	*****	*****	*****	*****	*****	*****
DEC 19,80	DEC 17,80	0.10	0.06	0.020	< 0.010	0.030	0.152
DEC 23,80	DEC 22,80	0.10	0.54	0.010	< 0.010	0.050	< 0.002
DEC 24,80	DEC 23,80	0.16	0.22	0.020	0.010	0.100	0.106
DEC 29,80	DEC 28,80	0.01	0.03	< 0.005	< 0.010	0.010	0.044
JAN 2,81	JAN 1,81	0.04	0.18	0.005	0.130	0.100	0.044
JAN 7,81	JAN 6,81	0.06	0.08	0.005	< 0.010	0.030	0.050
JAN 16,81	JAN 15,81	0.03	0.33	< 0.005	< 0.010	0.010	0.040
JAN 17,81	JAN 16,81	*****	*****	*****	*****	*****	*****
JAN 22,81	JAN 21,81	*****	*****	*****	*****	*****	*****
JAN 23,81	JAN 22,81	*****	*****	*****	*****	*****	*****
JAN 26,81	JAN 25,81	*****	0.10	*****	*****	*****	0.028
JAN 27,81	JAN 26,81	*****	0.20	*****	*****	*****	*****

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/AEROCHEM #08 PAGE : 7

SAMPLE DATE	INITIAL DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
FEB 2,81	FEB 1,81	800	830	****	****	2	23.2	2	417	2	1	88	FL	
FEB 3,81	FEB 2,81	830	815	****	****	2	1.9	2	421	2	1	53		
FEB 7,81	FEB 6,81	800	800	****	****	2	2.6	2	425	2	1	24		L
FEB 8,81	FEB 7,81	800	800	****	****	2	3.4	2	426	2	1	39		N
FEB 11,81	FEB 10,81	800	915	1130	****	1	48.2	2	2528	2	1	69		
FEB 12,81	FEB 11,81	915	800	****	****	2	3.2	2	2531	2	1	24	E	
FEB 17,81	FEB 16,81	800	800	****	****	1	2.2	1	431	2	1	87		L
FEB 19,81	FEB 18,81	800	800	****	****	1	0.6	1	2494	2	1	72	E	
FEB 21,81	FEB 20,81	800	800	****	****	1	2.6	2	2535	2	1	98		
FEB 23,81	FEB 22,81	800	800	****	****	1	0.8	2	440	2	1	130		N
FEB 24,81	FEB 23,81	800	800	****	****	1	6.0	2	1444	2	1	86		
FEB 28,81	FEB 27,81	800	800	****	****	2	6.9	2	1450	2	1	81		
MAR 1,81	FEB 28,81	800	800	****	****	2	2.2	2	1454	2	1	29		
MAR 3,81	MAR 2,81	800	800	****	****	2	0.5	2	1460	2	1	87		
MAR 4,81	MAR 3,81	800	800	****	****	2	1.1	2	1463	2	1	29		
MAR 5,81	MAR 4,81	800	800	****	****	2	3.4	2	1469	2	1	18		
MAR 7,81	MAR 6,81	900	800	****	****	2	1.9	2	1474	2	1	39		
MAR 11,81	MAR 10,81	800	800	****	****	2	2.1	2	1481	2	1	40		N
MAR 12,81	MAR 11,81	800	800	****	1300	2	0.7	2	1484	2	1	42		
MAR 13,81	MAR 12,81	800	800	1030	****	2	2.7	2	1485	2	1	73		
MAR 14,81	MAR 13,81	800	800	****	1600	2	1.6	2	1488	2	1	32		
MAR 16,81	MAR 15,81	800	800	1200	****	2	4.7	2	1491	2	1	76	F	
MAR 17,81	MAR 16,81	800	800	300	****	2	1.6	2	1498	2	1	33		
MAR 20,81	MAR 19,81	800	800	****	1000	2	2.8	2	1500	2	1	59		
MAR 27,81	MAR 26,81	800	800	1600	2400	1	0.6	1	2495	2	1	62	E	
MAR 30,81	MAR 29,81	800	800	2300	****	1	7.2	2	1505	2	1	100		
MAR 31,81	MAR 30,81	800	800	****	2200	1	13.0	2	1508	2	1	99		
APR 2,81	APR 1,81	800	800	930	1200	1	5.3	2	1512	2	1	102		
APR 4,81	APR 3,81	800	800	2230	****	1	13.8	2	1516	2	1	96		
APR 5,81	APR 4,81	800	800	****	1700	1	1.3	2	1520	2	1	40	C	
APR 9,81	APR 8,81	800	800	2000	****	1	13.4	2	1526	2	1	97	C	
APR 10,81	APR 9,81	800	800	****	1030	1	1.0	1	1530	2	1	67		
APR 11,81	APR 10,81	800	800	100	600	1	2.8	1	1534	2	1	109		
APR 14,81	APR 13,81	800	800	****	****	1	8.8	1	2317	2	1	110		
APR 15,81	APR 14,81	800	800	800	1300	1	7.2	1	2038	2	1	82		
APR 17,81	APR 16,81	800	800	500	800	1	2.1	1	2042	2	1	84		
APR 18,81	APR 17,81	800	800	800	100	1	6.2	1	2046	2	1	80		
APR 20,81	APR 19,81	800	800	1700	800	3	2.4	1	2047	2	1	96		M
APR 24,81	APR 23,81	800	800	800	800	1	7.2	1	2050	2	1	85		
APR 25,81	APR 24,81	800	800	800	700	1	4.6	1	2053	2	1	67		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/AEROCHEM #08

SAMPLE DATE	INITIAL DATE		VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ MG/L	SULPHATE MG/L	NITRATE AS N MG/L
FEB 2,81	FEB 1,81		1312.	19.0	4.12	4.39	0.067	1.00	0.38
FEB 3,81	FEB 2,81		65.	*****	*****	3.92	*****	1.80	0.88
FEB 7,81	FEB 6,81		41.	*****	*****	4.05	*****	1.05	1.19
FEB 8,81	FEB 7,81	U	85.	43.3	*****	4.00	*****	1.20	1.22
FEB 11,81	FEB 10,81		2160.	15.7	4.40	4.47	0.055	1.25	0.30
FEB 12,81	FEB 11,81		50.	*****	*****	*****	*****	*****	*****
FEB 17,81	FEB 16,81		124.	*****	*****	3.74	*****	6.65	1.25
FEB 19,81	FEB 18,81		28.	*****	*****	*****	*****	*****	*****
FEB 21,81	FEB 20,81		165.	*****	*****	4.70	*****	0.95	0.16
FEB 23,81	FEB 22,81		67.	*****	*****	4.25	*****	2.90	0.58
FEB 24,81	FEB 23,81		332.	20.6	*****	4.34	0.071	1.35	0.34
FEB 28,81	FEB 27,81		362.	21.4	4.32	4.41	0.069	1.60	0.46
MAR 1,81	FEB 28,81		42.	*****	*****	3.70	*****	8.30	2.03
MAR 3,81	MAR 2,81		28.	*****	*****	4.59	*****	*****	*****
MAR 4,81	MAR 3,81		21.	*****	*****	4.37	*****	*****	*****
MAR 5,81	MAR 4,81		41.	*****	*****	4.07	*****	0.85	1.20
MAR 7,81	MAR 6,81		48.	*****	*****	5.24	*****	0.25	0.08
MAR 11,81	MAR 10,81	U	55.	*****	*****	4.39	*****	1.60	0.28
MAR 12,81	MAR 11,81		19.	*****	*****	4.44	*****	*****	*****
MAR 13,81	MAR 12,81		128.	*****	*****	5.77	*****	1.85	0.65
MAR 14,81	MAR 13,81		33.	*****	*****	4.53	*****	*****	*****
MAR 16,81	MAR 15,81		230.	17.4	*****	4.80	0.049	2.20	0.60
MAR 17,81	MAR 16,81		34.	*****	*****	5.41	*****	*****	*****
MAR 20,81	MAR 19,81		106.	*****	*****	4.93	*****	0.30	0.06
MAR 27,81	MAR 26,81		24.	*****	*****	*****	*****	*****	*****
MAR 30,81	MAR 29,81		465.	45.9	3.97	4.10	0.119	5.55	0.71
MAR 31,81	MAR 30,81		832.	24.6	4.25	4.34	0.076	2.55	0.29
APR 2,81	APR 1,81		349.	21.2	4.42	4.52	0.060	2.85	0.39
APR 4,81	APR 3,81		852.	23.4	4.16	4.34	0.079	2.80	0.31
APR 5,81	APR 4,81		34.	*****	*****	6.77	*****	8.70	1.22
APR 9,81	APR 8,81		838.	28.6	4.31	4.54	0.068	4.75	0.84
APR 10,81	APR 9,81		43.	*****	*****	4.10	*****	3.45	0.30
APR 11,81	APR 10,81		196.	*****	*****	4.02	*****	6.60	1.72
APR 14,81	APR 13,81		623.	24.8	4.16	4.25	0.089	2.05	0.39
APR 15,81	APR 14,81		381.	16.0	4.33	4.44	*****	1.35	0.15
APR 17,81	APR 16,81		114.	*****	*****	4.27	*****	2.70	0.57
APR 18,81	APR 17,81		318.	54.5	*****	4.03	0.140	5.55	1.30
APR 20,81	APR 19,81		148.	13.2	*****	4.19	*****	1.45	0.16
APR 24,81	APR 23,81		393.	36.4	3.85	4.10	0.109	3.25	0.39
APR 25,81	APR 24,81		199.	*****	*****	4.48	*****	1.25	0.18

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/AEROCHEM #08 PAGE : 9

SAMPLE DATE	INITIAL DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
FEB 2,81	FEB 1,81	0.02	0.03	0.015	< 0.010	0.020	0.096
FEB 3,81	FEB 2,81	*****	0.11	*****	*****	*****	*****
FEB 7,81	FEB 6,81	*****	0.40	*****	*****	0.210	*****
FEB 8,81	FEB 7,81	0.21	0.47	0.015	0.030	0.080	*****
FEB 11,81	FEB 10,81	0.09	0.06	0.020	< 0.010	0.010	0.094
FEB 12,81	FEB 11,81	*****	*****	*****	*****	*****	*****
FEB 17,81	FEB 16,81	*****	1.22	*****	*****	*****	0.348
FEB 19,81	FEB 18,81	*****	*****	*****	*****	*****	*****
FEB 21,81	FEB 20,81	*****	0.15	*****	*****	*****	0.064
FEB 23,81	FEB 22,81	0.16	0.96	0.095	0.030	0.640	*****
FEB 24,81	FEB 23,81	0.04	0.14	0.005	0.010	0.070	0.090
FEB 28,81	FEB 27,81	0.16	0.10	0.010	0.010	0.060	0.240
MAR 1,81	FEB 28,81	*****	0.50	*****	*****	*****	*****
MAR 3,81	MAR 2,81	*****	*****	*****	*****	*****	*****
MAR 4,81	MAR 3,81	*****	*****	*****	*****	*****	*****
MAR 5,81	MAR 4,81	*****	0.44	*****	*****	*****	*****
MAR 7,81	MAR 6,81	*****	0.08	*****	*****	*****	*****
MAR 11,81	MAR 10,81	*****	0.08	*****	*****	*****	*****
MAR 12,81	MAR 11,81	*****	*****	*****	*****	*****	*****
MAR 13,81	MAR 12,81	0.81	0.19	0.140	0.030	0.080	0.640
MAR 14,81	MAR 13,81	*****	*****	*****	*****	*****	*****
MAR 16,81	MAR 15,81	0.48	0.11	0.055	0.030	0.060	0.730
MAR 17,81	MAR 16,81	*****	*****	*****	*****	*****	*****
MAR 20,81	MAR 19,81	*****	0.03	*****	*****	*****	0.020
MAR 27,81	MAR 26,81	*****	*****	*****	*****	*****	*****
MAR 30,81	MAR 29,81	0.52	0.29	0.070	0.030	0.210	0.850
MAR 31,81	MAR 30,81	0.13	0.01	0.005	< 0.010	0.020	0.368
APR 2,81	APR 1,81	0.61	0.10	0.070	0.030	0.070	0.362
APR 4,81	APR 3,81	0.26	0.17	0.250	0.030	0.070	0.260
APR 5,81	APR 4,81	*****	0.64	*****	*****	*****	*****
APR 9,81	APR 8,81	1.07	0.32	0.225	0.050	0.170	0.910
APR 10,81	APR 9,81	*****	0.05	*****	*****	*****	*****
APR 11,81	APR 10,81	1.03	0.36	0.155	0.090	0.280	1.250
APR 14,81	APR 13,81	0.03	0.12	0.005	< 0.010	0.080	0.200
APR 15,81	APR 14,81	0.01	< 0.01	< 0.005	< 0.010	0.020	0.074
APR 17,81	APR 16,81	0.26	0.10	0.055	0.030	0.060	0.302
APR 18,81	APR 17,81	0.54	0.22	0.060	0.050	0.110	1.240
APR 20,81	APR 19,81	0.11	0.05	0.005	< 0.010	0.030	0.192
APR 24,81	APR 23,81	0.01	0.08	< 0.005	0.020	0.030	0.112
APR 25,81	APR 24,81	0.05	0.05	< 0.005	0.020	0.050	0.042

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/AEROCHEM #08

SAMPLE DATE	INITIAL DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
APR 29,81	APR 28,81	800	800	1900	430	1	7.2	1	2056	2	1	95	C	
MAY 6,81	MAY 5,81	800	800	1630	2300	1	5.6	1	27001	2	1	95		
MAY 11,81	MAY 10,81	800	800	1100	600	1	24.9	1	27003	2	1	99		
MAY 12,81	MAY 11,81	800	800	800	600	1	15.2	1	27005	2	1	90		
MAY 13,81	MAY 12,81	800	900	1700	700	1	3.4	1	27007	2	1	61		
MAY 15,81	MAY 14,81	800	900	2000	600	1	2.4	1	27009	2	1	83		
MAY 25,81	MAY 24,81	800	810	1430	810	1	1.9	1	27011	2	1	74	C	
MAY 26,81	MAY 25,81	810	815	810	815	1	3.0	1	27014	2	1	80		
MAY 29,81	MAY 28,81	800	800	500	600	1	3.4	1	27015	2	1	98		
MAY 30,81	MAY 29,81	800	800	130	600	1	6.8	1	27017	2	1	95		
JUN 4,81	JUN 3,81	800	1100	800	1100	1	5.7	1	27019	2	1	55	G	
JUN 8,81	JUN 5,81	800	800	2300	600	1	10.0	1	27022	2	1	41	JACF	FN
JUN 9,81	JUN 8,81	800	830	1730	300	1	8.8	1	27023	2	1	103		
JUN 10,81	JUN 9,81	830	815	1320	1345	1	1.4	1	27024	2	1	76		
JUN 13,81	JUN 12,81	800	800	1130	1430	1	1.2	1	27026	2	1	55	C	
JUN 15,81	JUN 14,81	800	800	1730	2000	1	2.4	1	27027	2	1	95		
JUN 16,81	JUN 15,81	800	815	30	100	1	22.7	1	27029	2	1	97	J	
JUN 17,81	JUN 16,81	815	800	1730	1900	1	1.2	1	27031	2	1	65		
JUN 22,81	JUN 21,81	800	800	30	800	1	6.5	1	27032	2	1	98		
JUN 23,81	JUN 22,81	800	800	800	2400	1	17.5	1	27034	2	1	97		
JUN 25,81	JUN 24,81	800	800	1100	1430	1	4.6	1	27036	2	1	88		
JUN 30,81	JUN 29,81	800	815	2000	****	1	5.8	1	27038	2	1	93		
JUL 6,81	JUL 4,81	800	830	1150	1215	1	11.2	1	27040	2	1	91		
JUL 14,81	JUL 13,81	800	845	1600	2000	1	8.6	1	27043	2	1	100		
JUL 29,81	JUL 28,81	800	800	1130	1700	1	8.8	1	27044	2	1	101		
AUG 5,81	AUG 4,81	800	800	1700	200	1	20.2	1	27046	2	1	105		
AUG 9,81	AUG 7,81	800	800	1700	1900	1	33.0	1	27050	2	1	70		
AUG 10,81	AUG 9,81	800	800	1400	1500	1	1.6	1	27051	2	1	66		
AUG 11,81	AUG 10,81	800	800	400	500	1	5.6	1	27054	2	1	98		
AUG 15,81	AUG 14,81	700	700	100	1400	1	17.9	1	27056	2	1	103	D	
AUG 16,81	AUG 15,81	700	700	500	930	1	2.0	1	27059	2	1	36		
AUG 17,81	AUG 14,81	700	700	100	1400	1	19.9	1	27058	2	1	94		
AUG 24,81	AUG 23,81	800	800	1800	2100	1	3.0	1	27061	2	1	90		
AUG 29,81	AUG 28,81	800	800	2000	600	1	20.0	1	27063	2	1	101	J	
AUG 30,81	AUG 29,81	800	800	1800	1900	1	6.8	1	27065	2	1	94	J	
AUG 31,81	AUG 30,81	800	800	1030	1430	1	7.8	1	27067	2	1	97	AJ	
SEP 1,81	AUG 31,81	800	800	1530	1630	1	4.4	1	27070	2	1	100		
SEP 2,81	SEP 1,81	800	800	2000	130	1	28.8	1	27074	2	1	101		
SEP 3,81	SEP 2,81	800	800	800	2200	1	8.1	1	27076	2	1	84		
SEP 5,81	SEP 4,81	800	800	800	1200	1	12.6	1	27081	2	1	97		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/AEROCHEM #08

SAMPLE DATE	INITIAL DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ MG/L	SULPHATE MG/L	NITRATE AS N MG/L
APR 29,81	APR 28,81	443.	26.5	4.10	4.29	0.081	2.75	0.27
MAY 6,81	MAY 5,81	343.	38.5	*****	4.30	0.085	3.80	0.75
MAY 11,81	MAY 10,81	1588.	36.6	3.99	4.14	0.105	3.65	0.38
MAY 12,81	MAY 11,81	882.	15.6	4.40	4.50	0.056	1.20	0.19
MAY 13,81	MAY 12,81	135.	*****	*****	4.34	*****	2.35	0.07
MAY 15,81	MAY 14,81	128.	*****	*****	3.75	*****	8.00	1.06
MAY 25,81	MAY 24,81	91.	*****	*****	3.51	*****	15.00	2.17
MAY 26,81	MAY 25,81	155.	*****	*****	4.20	*****	4.00	0.75
MAY 29,81	MAY 28,81	215.	*****	*****	4.02	*****	5.75	0.58
MAY 30,81	MAY 29,81	418.	34.0	*****	4.27	0.090	4.00	0.68
JUN 4,81	JUN 3,81	202.	*****	*****	3.80	*****	6.75	1.02
JUN 8,81	JUN 5,81	U 267.	68.0	*****	5.76	0.102	13.20	2.00
JUN 9,81	JUN 8,81	584.	46.3	4.02	4.09	0.119	5.40	0.65
JUN 10,81	JUN 9,81	69.	*****	*****	4.23	*****	3.40	0.13
JUN 13,81	JUN 12,81	43.	*****	*****	4.29	*****	*****	*****
JUN 15,81	JUN 14,81	147.	*****	*****	4.26	*****	3.50	0.60
JUN 16,81	JUN 15,81	1423.	21.3	4.39	4.52	0.089	2.30	0.25
JUN 17,81	JUN 16,81	50.	*****	*****	4.31	*****	2.35	0.49
JUN 22,81	JUN 21,81	411.	20.2	4.18	4.39	0.071	1.45	0.45
JUN 23,81	JUN 22,81	1096.	10.3	4.50	4.69	0.049	1.15	0.06
JUN 25,81	JUN 24,81	261.	26.0	*****	4.20	U 0.009	2.70	0.32
JUN 30,81	JUN 29,81	348.	20.5	*****	4.37	0.071	1.95	0.32
JUL 6,81	JUL 4,81	657.	61.0	3.91	3.88	0.172	5.50	0.64
JUL 14,81	JUL 13,81	556.	12.6	4.38	4.76	0.048	1.50	0.16
JUL 29,81	JUL 28,81	575.	22.6	4.17	4.38	0.071	1.60	0.23
AUG 5,81	AUG 4,81	1369.	19.2	4.31	4.50	0.059	2.05	0.20
AUG 9,81	AUG 7,81	1498.	26.5	4.02	4.34	0.084	2.45	0.35
AUG 10,81	AUG 9,81	68.	*****	*****	4.03	*****	2.80	0.71
AUG 11,81	AUG 10,81	354.	22.5	4.09	4.40	0.074	2.10	0.43
AUG 15,81	AUG 14,81	1186.	22.0	4.10	4.33	0.084	1.95	0.20
AUG 16,81	AUG 15,81	47.	*****	*****	3.93	*****	7.00	0.34
AUG 17,81	AUG 14,81	1206.	24.3	4.00	4.32	0.081	2.30	0.21
AUG 24,81	AUG 23,81	174.	*****	*****	3.96	*****	6.05	0.65
AUG 29,81	AUG 28,81	1306.	82.5	3.61	3.77	0.216	8.65	0.59
AUG 30,81	AUG 29,81	414.	195.0	3.24	3.37	0.512	19.90	1.57
AUG 31,81	AUG 30,81	487.	112.0	3.49	3.64	0.278	11.50	0.96
SEP 1,81	AUG 31,81	284.	37.0	*****	4.14	*****	3.65	0.31
SEP 2,81	SEP 1,81	1878.	69.5	3.65	3.86	0.181	6.45	0.66
SEP 3,81	SEP 2,81	440.	72.0	3.65	3.80	0.188	7.05	0.66
SEP 5,81	SEP 4,81	786.	21.0	4.08	4.29	0.078	1.55	0.18

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/AEROCHEM #08

SAMPLE DATE	INITIAL DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
APR 29,81	APR 28,81	0.10	*****	< 0.005	< 0.010	0.020	0.292
MAY 6,81	MAY 5,81	0.96	0.16	0.120	0.020	0.020	0.300
MAY 11,81	MAY 10,81	0.11	0.14	0.020	0.020	0.050	0.316
MAY 12,81	MAY 11,81	0.02	0.03	< 0.005	< 0.010	0.010	0.072
MAY 13,81	MAY 12,81	*****	0.04	*****	*****	*****	0.004
MAY 15,81	MAY 14,81	*****	0.36	*****	*****	*****	0.540
MAY 25,81	MAY 24,81	*****	0.76	*****	*****	*****	*****
MAY 26,81	MAY 25,81	0.45	0.23	0.075	0.080	0.100	0.690
MAY 29,81	MAY 28,81	0.04	0.28	0.035	0.020	0.160	0.830
MAY 30,81	MAY 29,81	0.43	0.18	0.075	0.070	0.050	0.730
JUN 4,81	JUN 3,81	0.22	0.18	0.035	0.040	0.040	0.550
JUN 8,81	JUN 5,81	3.15	0.50	0.550	0.590	0.100	4.600
JUN 9,81	JUN 8,81	0.41	0.16	0.075	0.030	0.030	0.750
JUN 10,81	JUN 9,81	*****	0.13	*****	*****	*****	*****
JUN 13,81	JUN 12,81	*****	*****	*****	*****	*****	*****
JUN 15,81	JUN 14,81	0.24	0.22	0.030	0.040	0.110	0.650
JUN 16,81	JUN 15,81	0.19	0.53	0.035	0.080	0.570	0.234
JUN 17,81	JUN 16,81	*****	0.26	*****	*****	*****	*****
JUN 22,81	JUN 21,81	0.24	0.06	0.015	0.010	0.020	0.160
JUN 23,81	JUN 22,81	0.02	0.01	0.005	< 0.010	0.010	0.112
JUN 25,81	JUN 24,81	0.06	0.08	0.015	0.010	0.010	0.232
JUN 30,81	JUN 29,81	0.17	0.04	0.045	0.050	0.010	0.230
JUL 6,81	JUL 4,81	0.16	0.14	0.035	0.040	0.020	0.220
JUL 14,81	JUL 13,81	0.11	0.06	0.020	0.010	0.060	0.246
JUL 29,81	JUL 28,81	0.07	0.02	0.010	< 0.010	< 0.010	0.012
AUG 5,81	AUG 4,81	0.06	0.03	0.010	0.010	0.010	0.268
AUG 9,81	AUG 7,81	0.29	0.10	0.015	0.020	0.020	0.184
AUG 10,81	AUG 9,81	*****	0.15	*****	*****	*****	*****
AUG 11,81	AUG 10,81	0.19	0.09	0.035	0.030	< 0.010	0.356
AUG 15,81	AUG 14,81	0.06	0.08	0.015	0.030	0.030	0.156
AUG 16,81	AUG 15,81	*****	0.10	*****	*****	*****	*****
AUG 17,81	AUG 14,81	0.03	0.04	0.010	0.010	< 0.010	0.186
AUG 24,81	AUG 23,81	0.28	0.18	0.040	0.020	0.010	0.550
AUG 29,81	AUG 28,81	0.11	0.16	0.020	0.020	0.030	0.500
AUG 30,81	AUG 29,81	0.38	0.43	0.105	0.040	0.040	0.970
AUG 31,81	AUG 30,81	0.13	0.22	0.025	0.040	0.040	0.940
SEP 1,81	AUG 31,81	0.04	0.08	0.005	0.010	0.010	0.316
SEP 2,81	SEP 1,81	0.08	0.14	0.010	0.010	0.010	0.390
SEP 3,81	SEP 2,81	0.15	0.08	0.015	0.010	0.020	0.570
SEP 5,81	SEP 4,81	0.01	0.02	< 0.005	< 0.010	0.010	0.006

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/AEROCHEM #08

SAMPLE DATE	INITIAL DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
SEP 7,81	SEP 6,81	800	1600	1200	1400	1	6.4	1	27084	2	1	92		
SEP 8,81	SEP 7,81	1600	800	****	****	1	5.2	1	27087	2	1	97		
SEP 9,81	SEP 8,81	800	800	****	****	1	1.4	1	27090	2	1	55		
SEP 10,81	SEP 9,81	800	800	2200	600	1	33.8	1	27091	2	1	104		
SEP 12,81	SEP 11,81	800	800	2200	300	1	12.7	1	27094	2	1	100		
SEP 20,81	SEP 19,81	800	800	1400	1900	1	3.2	1	27097	2	1	87	C	
SEP 27,81	SEP 26,81	800	800	1400	800	1	27.6	1	27098	2	1	103		
SEP 28,81	SEP 27,81	800	800	2000	800	1	4.6	1	27101	2	1	87		
OCT 2,81	OCT 1,81	800	800	900	800	3	5.8	1	27104	2	1	61		
OCT 5,81	OCT 2,81	700	700	1700	2100	1	6.4	1	27106	2	1	82		
OCT 6,81	OCT 5,81	700	700	600	700	1	5.7	1	27109	2	1	103		
OCT 7,81	OCT 6,81	700	700	1200	200	1	10.4	1	27111	2	1	71		
OCT 8,81	OCT 7,81	700	700	700	1100	1	2.4	1	27113	2	1	35		N
OCT 16,81	OCT 15,81	730	730	1600	2000	1	2.8	1	27116	2	1	74		
OCT 18,81	OCT 17,81	800	800	200	800	1	22.4	1	27120	2	1	104		
OCT 19,81	OCT 18,81	800	800	800	200	3	8.4	1	27123	2	1	88	C	
OCT 21,81	OCT 20,81	800	800	1800	2000	1	1.8	1	27125	2	1	48	C	N
OCT 23,81	OCT 22,81	800	800	****	****	2	6.2	2	27128	2	1	78		
OCT 24,81	OCT 23,81	800	800	****	****	3	2.4	2	27131	2	1	113		
OCT 26,81	OCT 23,81	800	800	****	****	1	2.4	2	27134	2	1	272		N
NOV 6,81	NOV 5,81	800	800	2000	800	1	1.6	1	27135	2	1	81		
NOV 7,81	NOV 6,81	800	800	800	2400	3	5.2	2	27137	2	1	97		
NOV 17,81	NOV 16,81	800	830	1700	830	1	10.8	1	27141	2	1	98		
NOV 18,81	NOV 17,81	830	830	830	800	1	2.2	1	27145	2	1	38		N
NOV 20,81	NOV 19,81	830	830	****	****	2	5.8	2	27150	2	1	103	C	
NOV 24,81	NOV 20,81	830	830	****	****	2	11.8	2	27154	2	1	72		
NOV 27,81	NOV 26,81	830	830	1800	830	1	16.2	2	27159	2	1	107	C	
NOV 28,81	NOV 27,81	830	830	830	200	1	3.8	1	27163	2	1	98		
DEC 2,81	DEC 1,81	830	830	1200	600	3	2.4	2	27167	2	1	110		
DEC 8,81	DEC 7,81	830	830	2000	830	2	3.8	2	27172	2	1	55		
DEC 15,81	DEC 14,81	830	830	830	830	2	4.7	2	27181	2	1	63		
DEC 22,81	DEC 21,81	830	830	830	1800	2	5.2	2	27188	2	1	71		
DEC 23,81	DEC 22,81	830	900	100	830	2	5.2	2	27192	2	1	94		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/AEROCHEM #08

SAMPLE DATE	INITIAL DATE		VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ MG/L	SULPHATE MG/L	NITRATE AS N MG/L
SEP 7,81	SEP 6,81		381.	15.2	4.21	4.47	0.062	1.25	0.13
SEP 8,81	SEP 7,81		326.	26.8	*****	4.28	0.082	2.85	0.40
SEP 9,81	SEP 8,81		50.	*****	*****	4.26	*****	2.35	0.33
SEP 10,81	SEP 9,81		2272.	15.4	4.40	4.86	0.055	2.10	0.36
SEP 12,81	SEP 11,81		816.	18.0	4.43	4.58	0.062	2.20	0.40
SEP 20,81	SEP 19,81		180.	*****	*****	4.77	*****	3.20	0.55
SEP 27,81	SEP 26,81		1838.	37.5	4.06	4.09	0.112	3.80	0.40
SEP 28,81	SEP 27,81		257.	7.2	*****	5.30	0.028	0.95	0.06
OCT 2,81	OCT 1,81		228.	*****	*****	4.04	0.125	3.80	0.37
OCT 5,81	OCT 2,81		338.	6.6	*****	4.73	*****	0.50	0.06
OCT 6,81	OCT 5,81		379.	34.6	4.09	4.11	0.105	2.15	0.45
OCT 7,81	OCT 6,81		475.	29.5	4.16	4.19	0.092	2.55	0.30
OCT 8,81	OCT 7,81	U	55.	*****	*****	5.18	*****	0.15	0.06
OCT 16,81	OCT 15,81		133.	*****	*****	3.95	*****	4.15	0.68
OCT 18,81	OCT 17,81		1506.	19.0	4.35	4.37	0.074	1.45	0.21
OCT 19,81	OCT 18,81		476.	10.6	4.73	4.73	0.051	1.30	0.14
OCT 21,81	OCT 20,81	U	56.	*****	*****	5.08	*****	5.00	1.18
OCT 23,81	OCT 22,81		310.	5.6	*****	4.95	0.036	0.15	0.09
OCT 24,81	OCT 23,81		175.	*****	*****	4.55	*****	0.95	0.26
OCT 26,81	OCT 23,81		419.	21.4	4.31	4.40	0.067	1.60	0.48
NOV 6,81	NOV 5,81		84.	*****	*****	3.96	*****	3.60	1.19
NOV 7,81	NOV 6,81		325.	16.3	*****	4.44	0.067	1.15	0.20
NOV 17,81	NOV 16,81		682.	15.6	4.41	4.58	0.059	1.25	0.16
NOV 18,81	NOV 17,81	U	54.	*****	*****	4.34	*****	2.20	0.16
NOV 20,81	NOV 19,81		385.	6.7	4.70	4.75	0.053	0.60	0.10
NOV 24,81	NOV 20,81		550.	19.8	4.32	4.29	0.080	1.10	0.37
NOV 27,81	NOV 26,81		1120.	29.4	4.17	4.18	0.110	2.25	0.42
NOV 28,81	NOV 27,81		240.	23.2	*****	4.31	0.084	1.85	0.35
DEC 2,81	DEC 1,81		170.	*****	*****	4.04	*****	2.30	0.92
DEC 8,81	DEC 7,81		135.	*****	*****	4.12	*****	2.10	1.02
DEC 15,81	DEC 14,81		190.	*****	*****	4.18	*****	1.10	0.94
DEC 22,81	DEC 21,81		240.	9.2	*****	4.74	0.051	0.20	0.21
DEC 23,81	DEC 22,81		315.	9.7	*****	4.51	0.072	0.30	0.41

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/AEROCHEM #08

SAMPLE DATE	INITIAL DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
SEP 7,81	SEP 6,81	0.06	0.02	< 0.005	0.020	0.020	0.042
SEP 8,81	SEP 7,81	0.14	0.04	0.030	0.020	0.010	0.490
SEP 9,81	SEP 8,81	*****	0.08	*****	*****	*****	*****
SEP 10,81	SEP 9,81	0.34	0.04	0.065	0.030	0.010	0.540
SEP 12,81	SEP 11,81	0.36	0.07	0.060	0.030	0.010	0.510
SEP 20,81	SEP 19,81	0.58	0.36	0.125	0.240	0.150	0.690
SEP 27,81	SEP 26,81	0.16	0.08	0.035	0.020	0.020	0.400
SEP 28,81	SEP 27,81	0.10	0.04	0.035	0.020	0.010	0.192
OCT 2,81	OCT 1,81	0.04	0.09	< 0.005	< 0.010	0.020	0.158
OCT 5,81	OCT 2,81	0.01	< 0.01	< 0.005	< 0.010	< 0.010	< 0.002
OCT 6,81	OCT 5,81	0.03	0.09	< 0.005	< 0.010	< 0.010	0.204
OCT 7,81	OCT 6,81	0.04	0.02	0.005	0.020	0.010	0.140
OCT 8,81	OCT 7,81	*****	< 0.01	*****	*****	*****	*****
OCT 16,81	OCT 15,81	0.14	0.03	0.015	< 0.010	0.020	0.350
OCT 18,81	OCT 17,81	0.05	< 0.01	< 0.005	0.040	0.020	0.106
OCT 19,81	OCT 18,81	0.06	< 0.01	0.005	0.010	< 0.010	0.318
OCT 21,81	OCT 20,81	*****	0.24	*****	*****	*****	*****
OCT 23,81	OCT 22,81	0.04	0.06	0.010	< 0.010	< 0.010	0.002
OCT 24,81	OCT 23,81	0.11	0.03	0.025	0.090	0.020	0.130
OCT 26,81	OCT 23,81	0.17	0.04	0.035	< 0.010	0.020	0.214
NOV 6,81	NOV 5,81	*****	0.18	*****	*****	*****	0.400
NOV 7,81	NOV 6,81	0.05	0.04	< 0.005	0.040	0.020	0.054
NOV 17,81	NOV 16,81	0.11	0.37	0.015	0.010	0.180	0.072
NOV 18,81	NOV 17,81	*****	0.09	*****	*****	*****	*****
NOV 20,81	NOV 19,81	0.01	< 0.01	< 0.005	< 0.010	< 0.010	0.052
NOV 24,81	NOV 20,81	0.01	< 0.01	< 0.005	< 0.010	0.010	0.048
NOV 27,81	NOV 26,81	0.12	0.06	0.005	0.020	0.030	0.210
NOV 28,81	NOV 27,81	0.10	0.03	< 0.005	0.020	0.020	0.166
DEC 2,81	DEC 1,81	0.11	0.12	0.005	0.010	0.020	0.280
DEC 8,81	DEC 7,81	0.12	0.18	< 0.005	0.010	0.020	0.470
DEC 15,81	DEC 14,81	0.06	0.08	0.010	0.020	0.030	0.212
DEC 22,81	DEC 21,81	0.11	0.09	0.005	0.010	0.020	0.006
DEC 23,81	DEC 22,81	0.01	0.04	< 0.005	0.010	< 0.010	*****

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/SES #08 PAGE : 1

SAMPLE DATE	INITIAL DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
JAN 16,81	JAN 15,81	820	820	****	****	2	3.0	2	407	2	1	90	G	L
JAN 19,81	JAN 16,81	820	830	****	****	2	1.2	2	409	2	1	61		
JAN 22,81	JAN 21,81	830	820	****	****	1	0.8	2	411	2	1	104		L
JAN 23,81	JAN 22,81	820	810	****	****	2	1.2	2	413	2	1	86		
JAN 26,81	JAN 23,81	800	800	****	****	3	2.2	2	415	2	1	76		
JAN 27,81	JAN 26,81	800	830	1500	****	2	2.2	2	2526	2	1	68		
FEB 2,81	JAN 30,81	830	830	****	****	2	23.2	2	418	2	1	96		
FEB 3,81	FEB 2,81	830	815	****	****	2	1.9	2	422	2	1	58		
FEB 4,81	FEB 3,81	815	815	****	****	2	0.6	2	423	2	1	108		M
FEB 5,81	FEB 4,81	815	845	****	****	2	1.2	2	424	2	1	43		N
FEB 9,81	FEB 6,81	830	800	****	****	2	6.6	2	428	2	1	60		L
FEB 11,81	FEB 10,81	800	915	1130	****	2	48.2	2	2529	2	1	76		
FEB 12,81	FEB 11,81	915	800	****	****	3	3.2	2	429	2	1	69		
FEB 13,81	FEB 12,81	800	800	1600	****	2	0.2	2	2485	2	1	73	E	
FEB 17,81	FEB 16,81	800	800	****	****	1	2.2	1	432	2	1	87		L
FEB 19,81	FEB 18,81	800	800	****	****	1	0.4	2	2534	2	1	170	E	N
FEB 20,81	FEB 19,81	800	800	****	****	1	0.2	1	2486	2	1	82	E	
FEB 21,81	FEB 20,81	800	800	****	****	1	2.6	2	435	2	1	119		
FEB 22,81	FEB 21,81	800	800	****	****	1	0.7	1	2487	2	1	33	E	
FEB 23,81	FEB 22,81	800	800	****	****	1	0.8	2	439	2	1	106		L
FEB 24,81	FEB 23,81	800	800	****	****	1	6.0	2	1446	2	1	106		
FEB 25,81	FEB 24,81	800	800	****	****	2	0.2	2	1448	2	1	115		
FEB 28,81	FEB 27,81	800	800	****	****	2	6.9	2	1452	2	1	88		
MAR 1,81	FEB 28,81	800	800	****	****	2	2.2	2	1455	2	1	80		
MAR 2,81	MAR 1,81	800	800	****	****	2	0.8	2	1458	2	1	55		
MAR 3,81	MAR 2,81	800	800	****	****	2	0.5	2	1461	2	1	59		
MAR 4,81	MAR 3,81	800	800	****	****	2	1.1	2	1465	2	1	82		
MAR 5,81	MAR 4,81	800	800	****	****	2	3.4	2	1467	2	1	63		
MAR 7,81	MAR 6,81	900	800	****	****	2	1.9	2	1471	2	1	88		
MAR 8,81	MAR 7,81	800	800	****	****	2	0.2	2	1475	2	1	97		
MAR 10,81	MAR 9,81	800	800	****	****	2	0.2	2	1477	2	1	91		
MAR 11,81	MAR 10,81	800	800	****	****	2	2.1	2	1479	2	1	88		
MAR 12,81	MAR 11,81	800	800	****	1300	2	0.7	2	1482	2	1	66		
MAR 13,81	MAR 12,81	800	800	1030	****	2	2.7	2	1486	2	1	87		
MAR 14,81	MAR 13,81	800	800	****	1600	2	1.6	2	1489	2	1	57		
MAR 16,81	MAR 15,81	800	800	1200	****	2	4.7	2	1492	2	1	78	C	
MAR 17,81	MAR 16,81	800	800	300	****	2	1.6	2	1495	2	1	71		
MAR 20,81	MAR 19,81	800	800	****	1000	2	2.8	2	1501	2	1	85		
MAR 27,81	MAR 26,81	800	800	1600	2400	1	0.5	2	1503	2	1	161		N
MAR 30,81	MAR 29,81	800	800	2300	****	1	7.2	2	1506	2	1	104	A	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/SES #08

SAMPLE DATE	INITIAL DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ MG/L	SULPHATE MG/L	NITRATE AS N MG/L
JAN 16,81	JAN 15,81	443.	62.0	3.76	3.83	*****	0.90	1.76
JAN 19,81	JAN 16,81	121.	*****	*****	3.89	*****	1.70	1.42
JAN 22,81	JAN 21,81	137.	*****	*****	3.66	*****	11.40	2.10
JAN 23,81	JAN 22,81	170.	*****	*****	4.25	*****	1.75	0.34
JAN 26,81	JAN 23,81	276.	57.0	*****	3.93	*****	4.45	0.60
JAN 27,81	JAN 26,81	247.	33.3	*****	4.68	0.067	5.75	1.22
FEB 2,81	JAN 30,81	3657.	20.5	4.27	4.35	0.069	1.15	0.40
FEB 3,81	FEB 2,81	183.	*****	*****	3.90	0.155	2.10	0.92
FEB 4,81	FEB 3,81	107.	*****	*****	4.18	*****	1.10	0.90
FEB 5,81	FEB 4,81	U 85.	*****	*****	4.09	*****	1.10	0.90
FEB 9,81	FEB 6,81	650.	54.0	3.95	3.98	0.140	1.90	1.47
FEB 11,81	FEB 10,81	6074.	15.2	4.39	4.47	0.058	1.10	0.26
FEB 12,81	FEB 11,81	363.	33.6	3.97	4.12	0.101	2.05	0.64
FEB 13,81	FEB 12,81	24.	*****	*****	*****	*****	*****	*****
FEB 17,81	FEB 16,81	314.	100.0	*****	3.68	0.264	8.20	1.36
FEB 19,81	FEB 18,81	112.	*****	*****	*****	*****	*****	*****
FEB 20,81	FEB 19,81	27.	*****	*****	*****	*****	*****	*****
FEB 21,81	FEB 20,81	509.	21.8	4.12	4.32	0.076	1.60	0.30
FEB 22,81	FEB 21,81	39.	*****	*****	*****	*****	*****	*****
FEB 23,81	FEB 22,81	140.	*****	*****	4.02	*****	5.05	0.94
FEB 24,81	FEB 23,81	1044.	23.3	4.12	4.30	0.080	1.65	0.36
FEB 25,81	FEB 24,81	38.	*****	*****	*****	*****	*****	*****
FEB 28,81	FEB 27,81	1006.	31.6	4.14	4.23	0.093	2.35	0.73
MAR 1,81	FEB 28,81	292.	126.5	*****	3.59	0.315	9.25	2.45
MAR 2,81	MAR 1,81	73.	*****	*****	4.10	*****	5.40	0.69
MAR 3,81	MAR 2,81	49.	*****	*****	4.42	*****	2.80	0.10
MAR 4,81	MAR 3,81	148.	*****	*****	4.43	*****	0.30	0.72
MAR 5,81	MAR 4,81	353.	*****	3.91	3.96	0.142	1.80	1.33
MAR 7,81	MAR 6,81	276.	*****	*****	5.01	*****	0.20	0.08
MAR 8,81	MAR 7,81	32.	*****	*****	4.47	*****	*****	*****
MAR 10,81	MAR 9,81	30.	*****	*****	3.90	*****	*****	*****
MAR 11,81	MAR 10,81	306.	21.6	*****	4.33	0.073	1.55	0.30
MAR 12,81	MAR 11,81	76.	*****	*****	4.36	*****	2.15	0.26
MAR 13,81	MAR 12,81	386.	23.0	5.89	6.33	0.034	3.30	0.95
MAR 14,81	MAR 13,81	151.	*****	*****	4.37	*****	2.00	0.14
MAR 16,81	MAR 15,81	608.	18.5	4.59	4.92	0.051	2.40	0.63
MAR 17,81	MAR 16,81	188.	*****	*****	5.16	0.033	0.50	0.25
MAR 20,81	MAR 19,81	394.	U 8.8	4.39	4.79	0.041	0.40	0.08
MAR 27,81	MAR 26,81	132.	*****	*****	3.70	*****	6.70	2.60
MAR 30,81	MAR 29,81	1235.	49.2	3.96	4.13	0.121	6.15	0.81

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/SES #08 PAGE : 3

SAMPLE DATE	INITIAL DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
JAN 16,81	JAN 15,81	0.03	0.28	< 0.005	< 0.010	0.030	0.064
JAN 19,81	JAN 16,81	0.10	0.30	0.015	0.010	0.160	0.108
JAN 22,81	JAN 21,81	0.25	0.44	0.055	0.070	0.250	2.150
JAN 23,81	JAN 22,81	0.02	0.13	< 0.005	0.010	0.060	0.136
JAN 26,81	JAN 23,81	0.16	0.26	0.015	0.010	0.130	0.106
JAN 27,81	JAN 26,81	1.20	0.27	0.230	0.170	0.080	1.740
FEB 2,81	JAN 30,81	0.02	0.03	0.005	< 0.010	0.030	0.110
FEB 3,81	FEB 2,81	0.02	0.15	0.015	0.010	0.040	0.470
FEB 4,81	FEB 3,81	0.11	0.38	0.015	< 0.010	0.090	0.044
FEB 5,81	FEB 4,81	0.14	0.36	0.020	< 0.010	0.110	*****
FEB 9,81	FEB 6,81	0.37	0.52	0.050	0.040	0.150	0.360
FEB 11,81	FEB 10,81	0.03	0.12	< 0.005	< 0.010	0.020	0.098
FEB 12,81	FEB 11,81	0.07	0.19	0.005	0.020	0.080	0.150
FEB 13,81	FEB 12,81	*****	*****	*****	*****	*****	*****
FEB 17,81	FEB 16,81	0.30	1.33	0.110	0.050	0.760	0.500
FEB 19,81	FEB 18,81	*****	*****	*****	*****	*****	*****
FEB 20,81	FEB 19,81	*****	*****	*****	*****	*****	*****
FEB 21,81	FEB 20,81	0.02	0.15	< 0.005	0.040	0.060	0.088
FEB 22,81	FEB 21,81	*****	*****	*****	*****	*****	*****
FEB 23,81	FEB 22,81	0.44	2.10	0.270	0.090	1.650	0.550
FEB 24,81	FEB 23,81	0.03	0.15	0.010	0.010	0.080	0.094
FEB 25,81	FEB 24,81	*****	*****	*****	*****	*****	*****
FEB 28,81	FEB 27,81	0.25	0.16	0.020	0.020	0.090	0.370
MAR 1,81	FEB 28,81	0.15	0.38	0.015	0.050	0.090	1.270
MAR 2,81	MAR 1,81	*****	0.26	*****	*****	*****	0.910
MAR 3,81	MAR 2,81	*****	0.21	*****	*****	*****	*****
MAR 4,81	MAR 3,81	0.32	0.17	0.030	< 0.010	0.070	0.004
MAR 5,81	MAR 4,81	0.09	0.43	0.010	0.020	0.060	0.410
MAR 7,81	MAR 6,81	< 0.01	0.08	< 0.005	< 0.010	0.040	0.002
MAR 8,81	MAR 7,81	*****	*****	*****	*****	*****	*****
MAR 10,81	MAR 9,81	*****	*****	*****	*****	*****	*****
MAR 11,81	MAR 10,81	0.09	0.07	0.020	0.010	0.030	0.066
MAR 12,81	MAR 11,81	*****	0.14	*****	*****	*****	*****
MAR 13,81	MAR 12,81	1.58	0.31	0.335	0.050	0.130	0.970
MAR 14,81	MAR 13,81	0.11	0.16	0.030	< 0.010	0.100	0.066
MAR 16,81	MAR 15,81	0.58	0.13	*****	0.040	0.070	0.740
MAR 17,81	MAR 16,81	0.19	0.09	0.045	0.010	0.050	0.168
MAR 20,81	MAR 19,81	0.02	0.06	0.005	< 0.010	0.020	< 0.002
MAR 27,81	MAR 26,81	1.16	0.41	0.070	0.010	0.120	0.890
MAR 30,81	MAR 29,81	0.70	0.38	0.120	0.040	0.250	0.900

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/SES #08 PAGE : 4

SAMPLE DATE	INITIAL DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
MAR 31,81	MAR 30,81	800	800	****	2200	1	13.0	2	1509	2	1	102	C	
APR 2,81	APR 1,81	800	800	930	1200	1	5.3	2	1514	2	1	106		
APR 4,81	APR 3,81	800	800	2230	****	1	13.8	2	1518	2	1	100		
APR 5,81	APR 4,81	800	800	****	1700	1	1.3	2	1521	2	1	53	C	
APR 6,81	APR 5,81	800	800	1600	200	2	0.6	2	1524	2	1	125		
APR 9,81	APR 8,81	800	800	2000	****	1	13.4	2	1528	2	1	100	C	
APR 10,81	APR 9,81	800	800	****	1030	1	1.0	1	1531	2	1	68		
APR 11,81	APR 10,81	800	800	100	600	1	2.8	1	1536	2	1	113	C	
APR 14,81	APR 13,81	800	800	****	****	1	8.8	1	2325	2	1	105		
APR 15,81	APR 14,81	800	800	800	1300	1	7.2	1	2040	2	1	90		
APR 17,81	APR 16,81	800	800	500	800	1	2.1	1	2041	2	1	94	C	
APR 18,81	APR 17,81	800	800	800	100	1	6.2	1	2044	2	1	93		
APR 20,81	APR 19,81	800	800	1700	800	3	2.0	2	2048	2	1	100		
APR 24,81	APR 23,81	800	800	800	800	1	7.2	1	2052	2	1	98		
APR 25,81	APR 24,81	800	800	800	700	1	4.6	1	2054	2	1	83		
APR 29,81	APR 28,81	800	800	1900	430	1	7.2	1	2057	2	1	98	C	
NOV 7,81	NOV 6,81	800	800	800	2400	3	5.2	2	27140	2	1	104		
NOV 17,81	NOV 16,81	800	830	1700	830	1	10.8	1	27142	2	1	158		N
NOV 18,81	NOV 17,81	830	830	830	800	1	2.2	1	27147	2	1	88		
NOV 20,81	NOV 19,81	830	830	****	****	2	5.8	2	27151	2	1	96		
NOV 24,81	NOV 20,81	830	830	****	****	2	11.8	2	27153	2	1	75	C	
NOV 27,81	NOV 26,81	830	830	1800	830	1	16.2	2	27157	2	1	102		
NOV 28,81	NOV 27,81	830	830	830	200	1	3.8	1	27161	2	1	17	G	NM
DEC 2,81	DEC 1,81	830	830	1200	600	3	2.4	2	27166	2	1	129	C	N
DEC 4,81	DEC 2,81	830	830	****	****	3	1.8	2	27170	2	1	144		N
DEC 8,81	DEC 7,81	830	830	2000	830	2	3.8	2	27173	2	1	90		
DEC 9,81	DEC 8,81	830	830	830	830	2	****	*	27176	2	1	****	E	
DEC 10,81	DEC 9,81	830	830	830	830	2	1.5	2	27177	2	1	54		M
DEC 11,81	DEC 10,81	830	830	830	2400	2	****	*	27178	2	1	****	Q	
DEC 14,81	DEC 11,81	830	830	****	****	2	1.3	2	27179	2	1	105		
DEC 15,81	DEC 14,81	830	830	830	830	2	4.7	2	27180	2	1	96		
DEC 17,81	DEC 16,81	830	830	830	830	2	0.2	2	27184	2	1	45	E	
DEC 18,81	DEC 17,81	830	830	****	****	2	****	2	27185	2	1	****	E	
DEC 21,81	DEC 18,81	830	830	1200	1600	2	0.4	2	27186	2	1	91		
DEC 22,81	DEC 21,81	830	830	830	1800	2	5.2	2	27187	2	1	70		
DEC 23,81	DEC 22,81	830	900	100	830	2	5.2	2	27193	2	1	95		
DEC 25,81	DEC 24,81	830	900	1600	900	2	8.0	2	27195	2	1	82	C	
DEC 27,81	DEC 25,81	900	900	900	1300	2	2.2	2	27198	2	1	77		
DEC 28,81	DEC 27,81	900	900	****	****	2	5.0	2	27201	2	1	54		
DEC 29,81	DEC 28,81	900	830	1300	1600	2	1.4	2	27204	2	1	82		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/SES #08

SAMPLE DATE	INITIAL DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ MG/L	SULPHATE MG/L	NITRATE AS N MG/L
MAR 31,81	MAR 30,81	2190.	25.8	4.21	4.29	0.080	2.74	0.30
APR 2,81	APR 1,81	921.	21.2	4.46	4.74	0.053	3.45	0.50
APR 4,81	APR 3,81	2276.	21.8	4.25	4.46	0.067	3.20	0.37
APR 5,81	APR 4,81	114.	*****	*****	6.92	*****	11.50	1.64
APR 6,81	APR 5,81	123.	*****	*****	4.20	*****	4.20	0.11
APR 9,81	APR 8,81	2214.	27.8	4.38	4.82	0.055	5.05	0.96
APR 10,81	APR 9,81	112.	*****	*****	4.12	*****	4.10	0.33
APR 11,81	APR 10,81	522.	60.0	3.94	4.18	0.125	8.15	2.10
APR 14,81	APR 13,81	1524.	28.8	4.13	4.22	0.090	2.55	0.44
APR 15,81	APR 14,81	1069.	18.6	4.21	4.42	0.065	1.60	0.16
APR 17,81	APR 16,81	325.	33.1	*****	7.08	0.033	4.20	0.99
APR 18,81	APR 17,81	948.	72.5	3.77	3.90	0.178	6.80	1.61
APR 20,81	APR 19,81	331.	21.3	*****	4.50	0.066	2.85	0.27
APR 24,81	APR 23,81	1157.	44.5	3.79	4.02	0.129	3.65	0.52
APR 25,81	APR 24,81	633.	18.5	3.99	4.42	0.077	1.25	0.19
APR 29,81	APR 28,81	1168.	32.8	4.04	4.19	0.096	3.55	0.32
NOV 7,81	NOV 6,81	894.	20.0	4.30	4.37	0.070	1.55	0.21
NOV 17,81	NOV 16,81	2808.	15.2	4.40	4.59	0.057	1.25	0.14
NOV 18,81	NOV 17,81	320.	35.3	*****	4.13	0.108	3.45	0.25
NOV 20,81	NOV 19,81	920.	8.3	4.77	4.73	0.053	0.90	0.11
NOV 24,81	NOV 20,81	1455.	17.6	4.38	4.36	0.089	1.15	0.30
NOV 27,81	NOV 26,81	2715.	31.9	4.16	4.13	0.115	2.60	0.44
NOV 28,81	NOV 27,81	U 110.	*****	*****	4.86	*****	0.45	0.08
DEC 2,81	DEC 1,81	510.	58.0	3.80	3.91	0.171	3.65	1.14
DEC 4,81	DEC 2,81	425.	43.7	4.03	4.05	0.144	3.75	0.94
DEC 8,81	DEC 7,81	565.	58.0	3.92	3.93	0.168	3.35	1.56
DEC 9,81	DEC 8,81	*****	*****	*****	*****	*****	*****	*****
DEC 10,81	DEC 9,81	135.	*****	*****	5.37	*****	< 0.05	< 0.01
DEC 11,81	DEC 10,81	120.	*****	*****	5.02	*****	0.20	0.06
DEC 14,81	DEC 11,81	225.	74.0	*****	3.92	*****	5.55	1.80
DEC 15,81	DEC 14,81	740.	43.0	4.03	4.00	0.123	1.55	1.11
DEC 17,81	DEC 16,81	15.	*****	*****	*****	*****	*****	*****
DEC 18,81	DEC 17,81	15.	*****	*****	*****	*****	*****	*****
DEC 21,81	DEC 18,81	60.	*****	*****	4.53	*****	1.15	0.53
DEC 22,81	DEC 21,81	605.	10.4	4.49	4.58	0.063	0.50	0.29
DEC 23,81	DEC 22,81	815.	14.6	4.36	4.44	0.074	0.50	0.43
DEC 25,81	DEC 24,81	1080.	19.4	4.26	4.38	0.080	0.95	0.60
DEC 27,81	DEC 25,81	280.	30.7	*****	4.16	0.108	0.90	0.93
DEC 28,81	DEC 27,81	445.	12.1	4.44	4.54	0.067	0.30	0.20
DEC 29,81	DEC 28,81	190.	29.2	*****	4.23	*****	0.75	0.74

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/SES #08

SAMPLE DATE	INITIAL DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
MAR 31,81	MAR 30,81	0.14	0.01	0.005	< 0.010	0.020	0.382
APR 2,81	APR 1,81	1.00	0.14	0.155	0.050	0.110	0.440
APR 4,81	APR 3,81	0.56	0.20	0.070	0.050	0.080	0.348
APR 5,81	APR 4,81	*****	0.76	*****	*****	*****	1.670
APR 6,81	APR 5,81	*****	0.11	*****	*****	*****	0.180
APR 9,81	APR 8,81	1.35	0.33	0.285	0.070	0.200	0.940
APR 10,81	APR 9,81	0.32	0.06	0.055	0.050	0.050	0.126
APR 11,81	APR 10,81	2.00	0.39	0.355	0.110	0.310	1.580
APR 14,81	APR 13,81	0.10	0.15	0.010	< 0.010	0.080	0.290
APR 15,81	APR 14,81	< 0.01	0.03	< 0.005	< 0.010	0.020	0.084
APR 17,81	APR 16,81	3.70	0.10	0.725	0.090	0.060	0.640
APR 18,81	APR 17,81	0.54	0.20	0.075	0.040	0.100	1.380
APR 20,81	APR 19,81	0.23	0.08	0.030	0.020	0.050	0.490
APR 24,81	APR 23,81	0.12	0.09	< 0.005	< 0.010	0.020	0.182
APR 25,81	APR 24,81	0.01	0.05	< 0.005	0.040	0.090	0.034
APR 29,81	APR 28,81	0.18	0.04	0.010	< 0.010	0.030	0.336
NOV 7,81	NOV 6,81	0.03	0.02	< 0.005	< 0.010	0.010	0.066
NOV 17,81	NOV 16,81	0.10	0.27	0.015	< 0.010	0.180	0.074
NOV 18,81	NOV 17,81	0.05	0.10	< 0.005	0.020	0.100	0.228
NOV 20,81	NOV 19,81	0.10	< 0.01	< 0.005	0.020	< 0.010	0.078
NOV 24,81	NOV 20,81	0.01	0.02	< 0.005	< 0.010	0.010	0.122
NOV 27,81	NOV 26,81	0.17	0.06	0.020	0.030	0.050	0.214
NOV 28,81	NOV 27,81	0.05	< 0.01	0.005	0.010	0.010	0.094
DEC 2,81	DEC 1,81	0.36	0.15	0.025	0.030	0.030	0.430
DEC 4,81	DEC 2,81	0.19	0.10	0.005	0.010	0.020	0.790
DEC 8,81	DEC 7,81	0.19	0.29	< 0.005	0.020	0.030	0.850
DEC 9,81	DEC 8,81	*****	*****	*****	*****	*****	*****
DEC 10,81	DEC 9,81	0.03	0.03	< 0.005	< 0.010	0.020	0.004
DEC 11,81	DEC 10,81	0.04	0.08	< 0.005	< 0.010	0.020	0.018
DEC 14,81	DEC 11,81	0.61	0.32	0.145	0.090	0.130	0.940
DEC 15,81	DEC 14,81	0.07	0.12	0.015	0.010	0.020	0.300
DEC 17,81	DEC 16,81	*****	*****	*****	*****	*****	*****
DEC 18,81	DEC 17,81	*****	*****	*****	*****	*****	*****
DEC 21,81	DEC 18,81	*****	0.25	*****	*****	*****	< 0.002
DEC 22,81	DEC 21,81	0.24	0.13	0.030	0.010	0.030	0.046
DEC 23,81	DEC 22,81	0.02	0.06	< 0.005	0.020	0.010	*****
DEC 25,81	DEC 24,81	0.09	0.15	0.025	0.060	0.050	*****
DEC 27,81	DEC 25,81	0.10	0.21	0.020	0.050	0.050	*****
DEC 28,81	DEC 27,81	0.01	0.26	< 0.005	0.020	0.010	*****
DEC 29,81	DEC 28,81	0.04	0.22	< 0.005	0.040	0.030	*****

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/SES #08 PAGE : 7

SAMPLE DATE	INITIAL DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
DEC 30,81	DEC 29,81	830	830	830	830	2	****	2	27207	2	1	****		
DEC 31,81	DEC 30,81	830	830	830	1300	2	0.6	2	27208	2	1	55		
JAN 1,82	DEC 31,81	830	900	9	19	2	22.5	2	27210	2	1	5	G	N

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/SES #08 PAGE : 8

SAMPLE DATE	INITIAL DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ MG/L	SULPHATE MG/L	NITRATE AS N MG/L
DEC 30.81	DEC 29.81	25.	*****	*****	3.83	*****	*****	*****
DEC 31.81	DEC 30.81	55.	*****	*****	3.98	*****	2.05	1.58
JAN 1.82	DEC 31.81	U 195.	5.5	*****	4.89	*****	0.20	< 0.01

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/SES #08

SAMPLE DATE	INITIAL DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
DEC 30,81	DEC 29,81	*****	*****	*****	*****	*****	*****
DEC 31,81	DEC 30,81	*****	0.68	*****	*****	*****	*****
JAN 1,82	DEC 31,81	0.02	0.10	< 0.005	0.010	< 0.010	*****

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WHITMAN CREEK/DAILY/AEROCHEM #09

SAMPLE DATE	INITIAL DATE	SAMPLING START/END HR.	SAMPLING START/END HR.	PRECIP START/END HR.	PRECIP START/END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
OCT 25,80	OCT 24,80	800	800	700	800	1	****	*	113	2	1	****		
OCT 26,80	OCT 25,80	800	830	800	700	1	****	*	114	2	1	****	H	M
OCT 27,80	OCT 26,80	830	800	800	800	3	1.1	1	115	2	1	96		
NOV 4,80	NOV 3,80	800	800	300	800	1	3.0	1	116	2	1	90		L
NOV 5,80	NOV 4,80	800	800	800	400	1	2.4	1	117	2	1	98		L
NOV 7,80	NOV 6,80	800	800	800	800	3	3.4	1	118	2	1	113	B	L
NOV 8,80	NOV 7,80	800	800	800	800	3	12.4	1	119	2	1	50		
NOV 9,80	NOV 8,80	800	800	800	800	3	7.4	1	120	2	1	72		
NOV 14,80	NOV 13,80	800	800	1230	800	1	7.4	1	121	2	1	103		
MAY 6,81	MAY 5,81	800	800	****	****	1	4.0	1	22004	2	1	82		
MAY 11,81	MAY 10,81	800	800	200	800	1	22.0	1	22005	2	1	102		
MAY 12,81	MAY 11,81	800	800	****	****	1	****	*	22006	2	1	****	H	
MAY 22,81	MAY 21,81	800	800	1600	1630	1	4.0	1	22007	2	1	82	C	
MAY 28,81	MAY 27,81	800	****	1700	800	1	47.1	1	22008	2	1	101	AC	
MAY 29,81	MAY 28,81	800	800	800	1401	1	****	*	22009	2	1	****	AC	
MAY 30,81	MAY 29,81	800	800	1300	600	1	8.0	1	22010	2	1	96		
JUN 4,81	JUN 3,81	800	800	900	1600	1	10.0	1	22011	2	1	****	EFK	
JUN 9,81	JUN 8,81	800	800	1900	200	1	5.9	1	22012	2	1	93	AC	
JUN 14,81	JUN 13,81	800	800	400	800	1	1.0	1	22013	2	1	67	C	
JUN 15,81	JUN 14,81	800	800	2300	800	1	0.4	1	22014	2	1	159	C	
JUN 16,81	JUN 15,81	800	800	1800	2200	1	****	*	22015	2	1	****	AC	
JUN 17,81	JUN 16,81	800	800	2100	100	1	1.0	1	22016	2	1	31		
JUN 22,81	JUN 21,81	800	800	300	800	1	15.0	1	22017	2	1	86	A	
JUN 23,81	JUN 22,81	800	800	800	200	1	33.0	1	22018	2	1	80	GHE	
JUN 26,81	JUN 25,81	800	800	900	1400	1	7.0	1	22019	2	1	92	AD	
JUL 1,81	JUN 30,81	800	800	200	630	1	14.0	1	22020	2	1	103		
JUL 3,81	JUL 2,81	800	800	1645	1800	1	6.1	1	22021	2	1	98	A	X
JUL 5,81	JUL 4,81	800	800	1130	1300	1	8.2	1	22022	2	1	102	E	X
JUL 13,81	JUL 12,81	800	800	****	600	1	1.4	1	22023	2	1	55		
JUL 14,81	JUL 13,81	800	900	1600	1630	1	8.2	1	22024	2	1	101	AC	
JUL 18,81	JUL 17,81	800	800	2330	500	1	15.0	1	22025	2	1	88	AC	
JUL 21,81	JUL 20,81	800	800	800	1900	1	14.0	1	22026	2	1	93	A	
JUL 29,81	JUL 28,81	800	800	1130	730	1	24.0	1	22027	2	1	27	AC	N
AUG 5,81	AUG 4,81	800	800	1600	1900	1	44.0	1	22028	2	1	99	AB	
AUG 8,81	AUG 7,81	800	800	****	****	1	****	*	22029	2	1	****		
AUG 9,81	AUG 8,81	800	800	****	****	1	****	*	22030	2	1	****		
AUG 11,81	AUG 10,81	800	800	****	****	1	****	*	22031	2	1	****		
AUG 11,81	AUG 10,81	800	800	1500	1700	1	12.0	1	22032	2	1	54	C	
AUG 15,81	AUG 14,81	800	800	300	700	1	25.0	1	22033	2	1	****	KFE	
AUG 16,81	AUG 15,81	800	800	800	1900	1	35.0	1	22034	2	1	104	AC	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WHITMAN CREEK/DAILY/AEROCHEM #09

SAMPLE DATE	INITIAL DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ MG/L	SULPHATE MG/L	NITRATE AS N MG/L
OCT 25,80	OCT 24,80	56.	*****	*****	4.01	0.114	*****	*****
OCT 26,80	OCT 25,80	U 451.	3.9	5.10	5.09	0.045	0.20	0.05
OCT 27,80	OCT 26,80	68.	*****	*****	5.38	*****	*****	*****
NOV 4,80	NOV 3,80	174.	*****	*****	3.91	0.148	3.70	0.85
NOV 5,80	NOV 4,80	152.	*****	*****	4.43	0.066	1.85	0.52
NOV 7,80	NOV 6,80	247.	28.0	*****	4.25	0.089	1.85	0.80
NOV 8,80	NOV 7,80	400.	47.3	4.11	4.05	0.132	3.35	1.47
NOV 9,80	NOV 8,80	345.	24.1	*****	4.29	0.088	2.15	0.37
NOV 14,80	NOV 13,80	491.	43.6	4.05	4.02	0.132	3.25	1.05
MAY 6,81	MAY 5,81	212.	*****	*****	3.99	*****	4.90	0.70
MAY 11,81	MAY 10,81	1450.	35.5	4.14	4.15	0.107	3.40	0.51
MAY 12,81	MAY 11,81	418.	26.6	4.46	4.31	*****	2.75	0.42
MAY 22,81	MAY 21,81	211.	*****	*****	6.34	*****	8.25	1.29
MAY 28,81	MAY 27,81	3064.	31.0	4.12	4.23	0.094	3.40	0.31
MAY 29,81	MAY 28,81	365.	31.5	4.12	4.26	0.092	3.40	0.47
MAY 30,81	MAY 29,81	497.	43.2	4.00	4.08	0.124	4.65	0.58
JUN 4,81	JUN 3,81	*****	*****	*****	*****	*****	*****	*****
JUN 9,81	JUN 8,81	354.	72.0	3.83	3.89	0.173	7.85	1.45
JUN 14,81	JUN 13,81	43.	*****	*****	3.96	*****	9.20	0.79
JUN 15,81	JUN 14,81	41.	*****	*****	3.62	*****	14.50	1.31
JUN 16,81	JUN 15,81	428.	40.3	4.04	4.06	0.113	3.20	0.66
JUN 17,81	JUN 16,81	20.	*****	*****	4.13	*****	*****	*****
JUN 22,81	JUN 21,81	831.	18.5	4.24	4.37	0.069	1.60	0.20
JUN 23,81	JUN 22,81	1703.	*****	*****	*****	*****	*****	*****
JUN 26,81	JUN 25,81	416.	26.4	4.23	4.52	0.073	3.70	0.53
JUL 1,81	JUN 30,81	930.	49.4	4.01	3.96	0.145	4.85	0.54
JUL 3,81	JUL 2,81	387.	*****	U 4.83	3.78	*****	8.20	1.05
JUL 5,81	JUL 4,81	537.	*****	3.64	*****	*****	*****	*****
JUL 13,81	JUL 12,81	50.	*****	*****	4.76	*****	2.70	0.66
JUL 14,81	JUL 13,81	536.	9.0	5.03	5.57	0.031	1.50	0.22
JUL 18,81	JUL 17,81	849.	25.9	4.06	4.40	0.072	2.60	0.40
JUL 21,81	JUL 20,81	843.	28.6	4.00	4.31	0.080	3.55	0.18
JUL 29,81	JUL 28,81	U 426.	29.0	3.79	4.18	0.091	2.90	0.31
AUG 5,81	AUG 4,81	2796.	*****	3.80	4.05	0.121	6.00	0.49
AUG 8,81	AUG 7,81	301.	46.4	*****	4.04	*****	4.05	0.42
AUG 9,81	AUG 8,81	109.	*****	*****	3.92	*****	6.20	0.60
AUG 11,81	AUG 10,81	297.	77.5	*****	3.80	0.200	6.00	1.22
AUG 11,81	AUG 10,81	422.	19.7	*****	4.35	0.073	1.75	0.16
AUG 15,81	AUG 14,81	*****	*****	*****	*****	*****	*****	*****
AUG 16,81	AUG 15,81	2336.	44.4	*****	4.05	0.130	4.15	0.38

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WHITMAN CREEK/DAILY/AERDCHEM #09

SAMPLE DATE	INITIAL DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
OCT 25,80	OCT 24,80	*****	*****	*****	*****	*****	*****
OCT 26,80	OCT 25,80	0.04	< 0.01	0.010	0.030	0.020	0.016
OCT 27,80	OCT 26,80	*****	*****	*****	*****	*****	0.268
NOV 4,80	NOV 3,80	0.19	0.15	0.200	0.060	0.300	0.300
NOV 5,80	NOV 4,80	0.19	0.05	0.020	0.020	0.025	0.470
NOV 7,80	NOV 6,80	0.25	0.10	0.030	0.030	0.025	0.440
NOV 8,80	NOV 7,80	0.72	0.23	0.080	0.040	0.020	0.860
NOV 9,80	NOV 8,80	0.19	0.14	0.015	0.030	0.060	0.274
NOV 14,80	NOV 13,80	0.38	0.20	0.030	0.030	0.040	0.420
MAY 6,81	MAY 5,81	0.30	0.17	0.030	0.050	0.050	0.318
MAY 11,81	MAY 10,81	0.18	0.13	0.030	0.060	0.090	0.318
MAY 12,81	MAY 11,81	0.28	0.16	0.050	0.040	0.080	0.260
MAY 22,81	MAY 21,81	3.80	0.30	0.360	0.120	0.090	1.160
MAY 28,81	MAY 27,81	0.06	0.13	0.010	0.020	0.040	0.400
MAY 29,81	MAY 28,81	0.28	0.33	0.050	0.020	0.200	0.380
MAY 30,81	MAY 29,81	0.21	0.16	0.025	0.010	0.010	0.580
JUN 4,81	JUN 3,81	*****	*****	*****	*****	*****	*****
JUN 9,81	JUN 8,81	0.66	0.28	0.135	0.080	0.080	1.520
JUN 14,81	JUN 13,81	*****	0.25	*****	*****	*****	*****
JUN 15,81	JUN 14,81	*****	0.42	*****	*****	*****	*****
JUN 16,81	JUN 15,81	0.28	0.27	0.055	0.300	0.130	0.288
JUN 17,81	JUN 16,81	*****	*****	*****	*****	*****	*****
JUN 22,81	JUN 21,81	0.07	0.05	0.005	0.010	0.020	0.104
JUN 23,81	JUN 22,81	*****	*****	*****	*****	*****	*****
JUN 26,81	JUN 25,81	0.63	0.15	0.055	0.050	0.060	0.710
JUL 1,81	JUN 30,81	0.14	0.11	0.025	0.030	0.020	0.450
JUL 3,81	JUL 2,81	*****	0.68	*****	*****	*****	0.830
JUL 5,81	JUL 4,81	*****	*****	*****	*****	*****	*****
JUL 13,81	JUL 12,81	*****	0.29	*****	*****	*****	*****
JUL 14,81	JUL 13,81	0.58	0.09	0.060	0.040	0.010	0.210
JUL 18,81	JUL 17,81	0.38	0.11	0.060	0.020	0.020	0.232
JUL 21,81	JUL 20,81	0.34	0.15	0.035	0.020	0.080	0.182
JUL 29,81	JUL 28,81	0.11	0.15	0.015	0.320	0.090	0.180
AUG 5,81	AUG 4,81	0.69	0.30	0.080	0.030	0.150	0.500
AUG 8,81	AUG 7,81	0.14	0.31	0.020	0.040	0.250	0.012
AUG 9,81	AUG 8,81	0.21	0.14	0.030	0.050	0.070	0.540
AUG 11,81	AUG 10,81	0.36	0.25	0.060	0.040	0.030	0.390
AUG 11,81	AUG 10,81	0.02	0.04	0.005	< 0.010	0.030	0.110
AUG 15,81	AUG 14,81	*****	*****	*****	*****	*****	*****
AUG 16,81	AUG 15,81	0.04	0.06	0.010	0.010	0.030	0.350

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WHITMAN CREEK/DAILY/AEROCHEM #09

SAMPLE DATE	INITIAL DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
AUG 29,81	AUG 28,81	800	800	****	400	1	1.0	1	22036	2	1	98	C	
AUG 31,81	AUG 30,81	800	800	2000	300	1	4.8	1	22035	2	1	115		M
SEP 2,81	SEP 1,81	800	800	1600	800	1	17.0	1	22037	2	1	105		
SEP 3,81	SEP 2,81	800	800	800	800	1	4.0	1	22038	2	1	76	AJ	
SEP 5,81	SEP 4,81	800	800	800	800	1	51.0	1	22039	2	1	108	ACJ	
SEP 6,81	SEP 5,81	800	800	800	1230	1	1.2	1	22040	2	1	39	ACJ	NDC
SEP 7,81	SEP 6,81	800	800	500	800	1	1.0	1	22041	2	1	56	ACJ	FLC
SEP 8,81	SEP 7,81	800	800	2100	100	1	41.0	1	22042	2	1	88	ABCJ	
SEP 9,81	SEP 8,81	800	800	1530	1800	1	38.0	1	22043	2	1	104	AJ	
SEP 11,81	SEP 10,81	800	800	810	2000	1	13.0	1	22044	2	1	160		NJ
SEP 18,81	SEP 17,81	800	800	930	1500	1	7.0	1	22045	2	1	83		J
SEP 20,81	SEP 19,81	800	800	1800	2330	1	2.6	1	22046	2	1	52		
SEP 22,81	SEP 21,81	800	800	1900	500	1	6.2	1	22047	2	1	80		
SEP 23,81	SEP 22,81	800	800	1030	1230	1	2.5	1	22048	2	1	110		
SEP 27,81	SEP 26,81	800	800	330	500	1	23.0	1	22049	2	1	90		
OCT 2,81	OCT 1,81	800	800	1300	1930	1	3.6	1	22050	2	1	54		
OCT 5,81	OCT 4,81	800	800	800	2100	1	3.2	1	22051	2	1	64		
OCT 7,81	OCT 6,81	800	800	930	800	1	16.8	1	22052	2	1	85		
OCT 18,81	OCT 17,81	800	800	200	800	1	12.2	1	22053	2	1	92		
OCT 19,81	OCT 18,81	800	800	1230	300	1	4.0	1	22054	2	1	59		
OCT 22,81	OCT 21,81	800	800	1100	600	3	6.2	1	22055	2	1	130		N
OCT 23,81	OCT 22,81	800	800	900	800	1	12.2	1	22056	2	1	91		
OCT 26,81	OCT 25,81	800	800	600	1500	1	3.8	1	22057	2	1	84	C	
OCT 27,81	OCT 26,81	800	800	800	800	1	11.0	1	22058	2	1	87	C	
OCT 28,81	OCT 27,81	800	800	800	2300	1	29.4	1	22059	2	1	101	C	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WHITMAN CREEK/DAILY/AEROCHEM #09

SAMPLE DATE	INITIAL DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ MG/L	SULPHATE MG/L	NITRATE AS N MG/L
AUG 29,81	AUG 28,81	63.	*****	*****	3.78	*****	9.80	1.83
AUG 31,81	AUG 30,81	354.	27.4	4.32	4.28	0.081	2.20	0.31
SEP 2,81	SEP 1,81	1148.	47.0	3.54	3.96	0.132	4.65	0.49
SEP 3,81	SEP 2,81	196.	*****	*****	3.80	*****	6.55	0.82
SEP 5,81	SEP 4,81	3537.	33.1	3.44	4.15	0.102	2.95	0.37
SEP 6,81	SEP 5,81	U 30.	*****	*****	U 3.05	*****	U 10.00	U 2.00
SEP 7,81	SEP 6,81	36.	*****	*****	U 6.99	*****	U 11.50	U 1.35
SEP 8,81	SEP 7,81	2332.	43.8	3.36	4.07	0.118	5.55	0.50
SEP 9,81	SEP 8,81	2537.	32.9	3.47	4.17	0.100	3.55	0.19
SEP 11,81	SEP 10,81	1340.	15.5	3.40	5.23	0.040	2.80	0.36
SEP 18,81	SEP 17,81	376.	15.6	3.14	4.50	0.056	1.35	0.15
SEP 20,81	SEP 19,81	88.	*****	*****	4.79	*****	*****	*****
SEP 22,81	SEP 21,81	318.	9.0	*****	4.80	*****	0.60	0.20
SEP 23,81	SEP 22,81	177.	*****	*****	4.77	*****	0.50	0.10
SEP 27,81	SEP 26,81	1335.	54.0	4.17	3.95	0.144	5.55	0.59
OCT 2,81	OCT 1,81	125.	*****	*****	4.04	*****	4.65	0.54
OCT 5,81	OCT 4,81	133.	*****	*****	4.55	*****	1.50	0.10
OCT 7,81	OCT 6,81	926.	37.2	4.34	4.12	0.118	3.15	0.59
OCT 18,81	OCT 17,81	720.	19.5	4.45	4.43	0.067	1.80	0.20
OCT 19,81	OCT 18,81	153.	*****	*****	4.22	*****	4.65	0.54
OCT 22,81	OCT 21,81	520.	40.9	4.17	4.15	0.108	3.35	0.91
OCT 23,81	OCT 22,81	719.	62.0	3.94	3.90	0.164	4.20	1.30
OCT 26,81	OCT 25,81	206.	*****	*****	4.59	0.055	1.60	0.30
OCT 27,81	OCT 26,81	616.	11.2	4.65	4.61	0.060	*****	*****
OCT 28,81	OCT 27,81	1919.	10.7	4.60	4.88	0.052	1.05	0.12

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WHITMAN CREEK/DAILY/AEROCHEM #09

SAMPLE DATE	INITIAL DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
AUG 29,81	AUG 28,81	*****	0.39	*****	*****	*****	*****
AUG 31,81	AUG 30,81	0.07	0.08	0.010	< 0.010	0.020	0.078
SEP 2,81	SEP 1,81	0.05	0.14	0.010	0.060	0.030	0.370
SEP 3,81	SEP 2,81	0.10	0.20	0.025	0.040	0.120	0.580
SEP 5,81	SEP 4,81	0.01	0.11	0.005	0.020	0.030	0.294
SEP 6,81	SEP 5,81	*****	U 0.96	*****	*****	*****	*****
SEP 7,81	SEP 6,81	*****	U 1.74	*****	*****	*****	*****
SEP 8,81	SEP 7,81	0.51	0.28	0.200	0.030	0.080	0.340
SEP 9,81	SEP 8,81	0.02	0.07	0.005	0.010	0.010	0.234
SEP 11,81	SEP 10,81	0.58	0.28	0.100	0.040	0.020	0.700
SEP 18,81	SEP 17,81	0.11	0.08	0.010	0.010	0.010	0.102
SEP 20,81	SEP 19,81	*****	*****	*****	*****	*****	*****
SEP 22,81	SEP 21,81	0.12	0.10	0.005	0.030	0.020	0.088
SEP 23,81	SEP 22,81	*****	< 0.01	*****	*****	*****	0.034
SEP 27,81	SEP 26,81	0.30	0.10	0.035	0.010	0.040	0.490
OCT 2,81	OCT 1,81	0.12	0.13	0.015	0.060	0.080	0.490
OCT 5,81	OCT 4,81	0.14	0.04	0.015	< 0.010	0.030	0.094
OCT 7,81	OCT 6,81	0.05	0.07	< 0.005	< 0.010	0.020	0.490
OCT 18,81	OCT 17,81	0.13	0.08	0.020	0.010	0.020	0.142
OCT 19,81	OCT 18,81	0.63	0.20	0.105	0.040	0.060	0.530
OCT 22,81	OCT 21,81	0.38	0.18	0.045	0.040	0.030	0.460
OCT 23,81	OCT 22,81	0.31	0.16	0.030	0.030	0.030	0.394
OCT 26,81	OCT 25,81	0.17	0.08	0.015	0.010	0.020	0.272
OCT 27,81	OCT 26,81	0.04	*****	< 0.005	< 0.010	0.020	0.038
OCT 28,81	OCT 27,81	0.14	0.35	0.025	0.200	0.530	< 0.002

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WHITMAN CREEK/DAILY/SES #09

SAMPLE DATE	INITIAL DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
NOV 25,80	NOV 24,80	800	800	800	800	3	****	*	122	2	1	****		J
NOV 27,80	NOV 26,80	800	800	800	800	3	****	*	123	2	1	****		L
NOV 29,80	NOV 28,80	800	800	800	800	3	****	*	124	2	1	****		
DEC 2,80	DEC 1,80	800	800	800	800	3	****	*	125	2	1	****	A	L
DEC 3,80	DEC 2,80	800	800	800	800	3	****	*	126	2	1	****	C	M
DEC 9,80	DEC 8,80	800	800	800	1600	3	****	*	127	2	1	****		
DEC 10,80	DEC 9,80	800	800	1900	800	2	****	*	128	2	1	****		
DEC 13,80	DEC 12,80	800	800	900	2300	2	****	*	129	2	1	****	C	
DEC 26,80	DEC 25,80	800	800	800	1900	2	****	*	130	2	1	****	C	L
JAN 7,81	JAN 6,81	800	800	800	800	2	****	*	131	2	1	****	C	L
FEB 2,81	FEB 1,81	800	800	900	800	3	****	*	132	2	1	****		L
FEB 3,81	FEB 2,81	800	800	800	2100	2	****	*	133	2	1	****	G	
FEB 5,81	FEB 4,81	800	800	800	800	2	****	*	2468	2	1	****	E	
FEB 7,81	FEB 6,81	800	800	1100	800	2	****	*	134	2	1	****		L
FEB 9,81	FEB 8,81	800	800	2400	400	2	****	*	135	2	1	****		L
FEB 11,81	FEB 10,80	800	800	1500	800	3	****	*	136	2	1	****		
FEB 12,81	FEB 11,81	800	800	1500	800	3	****	*	137	2	1	****		L
FEB 17,81	FEB 16,81	800	800	1300	2200	1	****	*	138	2	1	****		L
FEB 20,81	FEB 19,81	800	800	730	800	1	****	*	2450	2	1	****	G	X
FEB 21,81	FEB 20,81	800	800	800	800	1	****	*	1969	2	1	****		M
FEB 24,81	FEB 23,81	800	800	800	****	1	25.0	1	1806	2	1	110		
FEB 26,81	FEB 25,81	800	800	800	800	3	****	*	1807	2	1	****		
MAR 1,81	FEB 28,81	800	800	800	800	3	1.3	1	1808	2	1	118		
MAR 2,81	MAR 1,81	800	800	800	****	2	****	*	1809	2	1	****		
MAR 5,81	MAR 4,81	800	800	800	800	3	1.3	1	1810	2	1	110		
MAR 9,81	MAR 8,81	800	800	2130	800	3	****	*	1811	2	1	****		
MAR 11,81	MAR 10,81	800	800	****	800	2	****	*	1812	2	1	****		
MAR 13,81	MAR 12,81	800	800	800	800	2	****	*	1813	2	1	****		
MAR 14,81	MAR 13,81	800	800	800	2300	2	****	*	1814	2	1	****		
MAR 17,81	MAR 16,81	800	800	****	800	2	****	*	1815	2	1	****		EC
MAR 18,81	MAR 17,81	800	800	800	1800	2	****	*	1816	2	1	****		
MAR 20,81	MAR 19,81	800	800	****	****	2	****	*	1817	2	1	****		
MAR 21,81	MAR 20,81	800	800	1700	****	2	****	*	1818	2	1	****		
MAR 27,81	MAR 26,81	800	800	2200	800	1	2.3	1	1819	2	1	62		EC
MAR 30,81	MAR 29,81	800	800	****	800	1	1.3	1	1820	2	1	77	A	ECM
MAR 31,81	MAR 30,81	800	800	800	****	1	12.3	1	1821	2	1	98		
APR 4,81	APR 3,81	800	800	800	800	1	8.4	1	2128	2	1	90	A	
APR 5,81	APR 4,81	800	800	****	****	1	6.4	1	2129	2	1	29		N
APR 6,81	APR 5,81	800	800	800	800	1	6.4	1	2130	2	1	9	A	N
APR 9,81	APR 8,81	800	800	****	800	1	2.2	1	2131	2	1	91	AD	EC

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WHITMAN CREEK/DAILY/SES #09 PAGE : 2

SAMPLE DATE	INITIAL DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ MG/L	SULPHATE MG/L	NITRATE AS N MG/L
NOV 25,80	NOV 24,80	612.	40.2	U 4.73	4.03	0.123	2.50	0.94
NOV 27,80	NOV 26,80	152.	*****	*****	4.45	*****	0.40	0.43
NOV 29,80	NOV 28,80	608.	23.9	4.68	4.26	0.087	1.70	0.44
DEC 2,80	DEC 1,80	190.	*****	*****	3.70	*****	4.50	2.52
DEC 3,80	DEC 2,80	1895.	26.5	4.37	4.11	0.090	1.75	0.44
DEC 9,80	DEC 8,80	780.	34.0	4.29	4.02	0.108	2.75	0.48
DEC 10,80	DEC 9,80	237.	*****	*****	5.66	*****	0.25	0.10
DEC 13,80	DEC 12,80	449.	30.6	4.19	4.12	0.115	2.00	0.76
DEC 26,80	DEC 25,80	274.	43.5	*****	4.07	*****	2.05	1.28
JAN 7,81	JAN 6,81	361.	37.4	4.26	4.19	*****	1.55	1.16
FEB 2,81	FEB 1,81	1218.	31.6	3.84	4.33	0.088	2.25	0.83
FEB 3,81	FEB 2,81	396.	17.8	4.27	4.52	0.064	0.75	0.43
FEB 5,81	FEB 4,81	25.	*****	*****	*****	*****	*****	*****
FEB 7,81	FEB 6,81	115.	*****	*****	4.03	*****	2.85	1.83
FEB 9,81	FEB 8,81	108.	*****	*****	4.51	*****	2.45	1.57
FEB 11,81	FEB 10,80	5320.	18.4	4.34	4.40	0.068	1.30	0.32
FEB 12,81	FEB 11,81	1441.	25.0	4.24	4.29	0.079	2.30	0.34
FEB 17,81	FEB 16,81	582.	46.6	4.32	4.32	0.091	4.80	1.32
FEB 20,81	FEB 19,81	2079.	*****	4.21	*****	*****	*****	*****
FEB 21,81	FEB 20,81	2809.	9.4	4.51	4.64	0.046	1.20	0.21
FEB 24,81	FEB 23,81	4534.	15.3	3.75	4.68	0.049	1.20	0.21
FEB 26,81	FEB 25,81	81.	*****	*****	4.17	*****	4.80	0.44
MAR 1,81	FEB 28,81	252.	111.0	*****	3.79	*****	11.80	2.90
MAR 2,81	MAR 1,81	57.	*****	*****	3.98	*****	17.20	3.40
MAR 5,81	MAR 4,81	235.	10.6	*****	6.58	0.024	0.90	0.40
MAR 9,81	MAR 8,81	67.	*****	*****	4.78	*****	7.30	0.32
MAR 11,81	MAR 10,81	99.	*****	*****	5.00	*****	2.55	0.36
MAR 13,81	MAR 12,81	51.	*****	*****	4.38	*****	4.90	0.37
MAR 14,81	MAR 13,81	136.	*****	*****	6.36	*****	6.40	1.67
MAR 17,81	MAR 16,81	170.	*****	*****	7.48	*****	5.65	1.86
MAR 18,81	MAR 17,81	384.	24.6	4.33	4.33	0.075	0.90	0.78
MAR 20,81	MAR 19,81	369.	7.2	4.89	5.00	0.035	0.35	0.14
MAR 21,81	MAR 20,81	74.	*****	*****	4.34	*****	3.15	0.88
MAR 27,81	MAR 26,81	235.	156.0	*****	3.70	0.287	10.10	5.60
MAR 30,81	MAR 29,81	165.	*****	*****	5.44	*****	30.00	5.20
MAR 31,81	MAR 30,81	1996.	24.8	4.23	4.25	0.092	3.45	0.34
APR 4,81	APR 3,81	1245.	68.0	3.93	4.36	0.113	12.50	1.56
APR 5,81	APR 4,81	U 311.	9.3	*****	6.16	0.031	0.40	0.30
APR 6,81	APR 5,81	U 96.	*****	*****	4.75	*****	2.85	0.18
APR 9,81	APR 8,81	330.	70.0	*****	7.07	0.053	11.80	1.26

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WHITMAN CREEK/DAILY/SES #09

SAMPLE DATE	INITIAL DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
NOV 25,80	NOV 24,80	0.34	0.79	0.040	0.020	0.500	0.380
NOV 27,80	NOV 26,80	0.09	0.03	0.015	0.010	0.030	0.074
NOV 29,80	NOV 28,80	0.19	0.16	0.035	0.020	0.110	0.192
DEC 2,80	DEC 1,80	0.86	0.84	0.125	0.130	0.500	0.098
DEC 3,80	DEC 2,80	0.05	0.04	0.100	0.020	0.040	0.204
DEC 9,80	DEC 8,80	0.08	0.28	0.010	0.020	0.150	0.282
DEC 10,80	DEC 9,80	0.21	0.11	0.035	0.010	0.090	0.014
DEC 13,80	DEC 12,80	0.19	0.40	0.020	0.030	0.020	0.410
DEC 26,80	DEC 25,80	0.52	0.88	0.090	0.040	0.430	0.344
JAN 7,81	JAN 6,81	0.60	1.18	0.055	0.020	0.820	0.146
FEB 2,81	FEB 1,81	0.80	0.40	0.070	0.030	0.180	0.222
FEB 3,81	FEB 2,81	0.08	0.17	0.150	0.010	0.060	0.120
FEB 5,81	FEB 4,81	*****	*****	*****	*****	*****	*****
FEB 7,81	FEB 6,81	1.32	4.18	0.130	0.080	*****	0.304
FEB 9,81	FEB 8,81	1.82	2.45	0.210	0.090	*****	0.400
FEB 11,81	FEB 10,80	0.07	0.33	0.010	0.010	0.130	0.080
FEB 12,81	FEB 11,81	0.10	0.39	0.020	0.110	0.240	0.118
FEB 17,81	FEB 16,81	1.38	2.60	0.205	0.070	2.500	0.540
FEB 20,81	FEB 19,81	*****	*****	*****	*****	*****	*****
FEB 21,81	FEB 20,81	0.01	0.06	< 0.005	0.010	0.030	0.044
FEB 24,81	FEB 23,81	0.18	1.15	0.110	0.030	0.700	0.104
FEB 26,81	FEB 25,81	*****	0.15	*****	*****	*****	0.460
MAR 1,81	FEB 28,81	2.25	0.56	0.225	0.120	0.220	2.400
MAR 2,81	MAR 1,81	*****	1.21	*****	*****	*****	*****
MAR 5,81	MAR 4,81	0.96	0.27	0.165	0.010	0.190	0.144
MAR 9,81	MAR 8,81	*****	0.72	*****	*****	*****	1.510
MAR 11,81	MAR 10,81	*****	0.15	*****	*****	*****	0.530
MAR 13,81	MAR 12,81	*****	0.30	*****	*****	*****	0.750
MAR 14,81	MAR 13,81	2.65	1.26	0.510	0.130	0.560	1.370
MAR 17,81	MAR 16,81	7.80	2.40	0.440	0.550	1.500	1.220
MAR 18,81	MAR 17,81	0.35	0.31	0.045	0.010	0.100	0.258
MAR 20,81	MAR 19,81	0.12	0.20	0.010	< 0.010	0.100	0.086
MAR 21,81	MAR 20,81	*****	2.20	*****	*****	*****	0.380
MAR 27,81	MAR 26,81	4.60	4.30	0.695	0.410	2.400	1.750
MAR 30,81	MAR 29,81	12.00	3.00	1.400	2.000	2.200	0.840
MAR 31,81	MAR 30,81	0.14	0.13	0.015	0.040	0.110	0.400
APR 4,81	APR 3,81	3.30	0.83	0.445	0.330	0.440	1.940
APR 5,81	APR 4,81	0.64	0.32	0.040	0.120	0.280	0.074
APR 6,81	APR 5,81	*****	0.09	*****	*****	*****	0.318
APR 9,81	APR 8,81	5.70	1.45	1.000	0.560	1.010	1.980

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WHITMAN CREEK/DAILY/SES #09

SAMPLE DATE	INITIAL DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
APR 11,81	APR 10,81	800	800	800	****	1	6.1	1	2132	2	1	87	A	
APR 15,81	APR 14,81	800	800	800	1500	1	13.1	1	2133	2	1	78	B	
APR 18,81	APR 17,81	800	800	800	****	1	14.6	1	2134	2	1	98		J
APR 20,81	APR 19,81	800	800	2130	****	1	1.3	1	2135	2	1	76	A	M
APR 24,81	APR 23,81	800	800	800	800	1	****	*	22001	2	1	****	AD	
APR 25,81	APR 24,81	800	800	800	800	1	12.3	1	22002	2	1	17	AD	N
APR 28,81	APR 27,81	800	800	800	2300	1	3.4	1	22003	2	1	125	ABC	NE
NOV 7,81	NOV 6,81	800	800	2200	500	2	****	*	22060	2	1	****		
NOV 16,81	NOV 15,81	800	800	300	600	1	****	*	22061	2	1	****	AC	
NOV 17,81	NOV 16,81	800	800	200	800	1	****	*	22062	2	1	****		
NOV 19,81	NOV 18,81	800	800	600	800	1	****	*	22063	2	1	****		N
NOV 20,81	NOV 19,81	800	800	100	730	1	****	*	22064	2	1	****		
NOV 21,81	NOV 20,81	800	800	****	****	3	****	*	22065	2	1	****		
NOV 27,81	NOV 26,81	800	800	1130	100	1	****	*	22066	2	1	****		
DEC 2,81	DEC 1,81	800	800	1100	300	1	****	*	22067	2	1	****		
DEC 3,81	DEC 2,81	800	800	900	1300	1	****	*	22068	2	1	****		
DEC 8,81	DEC 7,81	800	800	1600	800	4	****	*	22069	2	1	****		
DEC 9,81	DEC 8,81	800	800	900	1500	2	****	*	22070	2	1	****		
DEC 15,81	DEC 14,81	800	800	100	1900	2	****	*	22071	2	1	****		
DEC 22,81	DEC 21,81	800	800	110	1900	2	****	*	22072	2	1	****		
DEC 23,81	DEC 22,81	800	800	900	1730	3	****	*	22073	2	1	****		
DEC 29,81	DEC 28,81	800	800	1300	200	2	****	*	22074	2	1	****		
JAN 1,82	DEC 31,81	800	800	800	1100	3	****	*	22075	2	1	****		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WHITMAN CREEK/DAILY/SES #09

SAMPLE DATE	INITIAL DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ MG/L	SULPHATE MG/L	NITRATE AS N MG/L
APR 11,81	APR 10,81	879.	34.5	3.62	4.29	0.088	4.50	0.87
APR 15,81	APR 14,81	1694.	20.2	3.75	4.51	0.060	2.75	0.29
APR 18,81	APR 17,81	2352.	23.5	U 3.53	4.72	0.052	3.40	0.76
APR 20,81	APR 19,81	162.	*****	*****	7.18	*****	3.00	0.28
APR 24,81	APR 23,81	1955.	39.9	4.04	4.08	0.113	3.60	0.70
APR 25,81	APR 24,81	U 351.	44.9	4.02	4.03	0.135	2.55	1.00
APR 28,81	APR 27,81	699.	39.2	4.34	4.41	0.090	5.40	1.04
NOV 7,81	NOV 6,81	1063.	16.4	4.59	4.67	0.050	1.55	0.36
NOV 16,81	NOV 15,81	285.	67.0	*****	4.15	0.120	6.50	2.60
NOV 17,81	NOV 16,81	791.	30.3	4.19	4.24	0.089	2.05	0.61
NOV 19,81	NOV 18,81	656.	36.6	3.28	4.14	0.102	3.00	0.70
NOV 20,81	NOV 19,81	223.	72.2	*****	3.87	0.185	5.30	1.45
NOV 21,81	NOV 20,81	850.	59.9	3.16	3.93	0.155	3.95	1.30
NOV 27,81	NOV 26,81	190.	*****	*****	6.65	*****	1.20	0.23
DEC 2,81	DEC 1,81	164.	*****	*****	4.02	*****	8.40	1.79
DEC 3,81	DEC 2,81	20.	*****	*****	3.73	*****	*****	*****
DEC 8,81	DEC 7,81	934.	32.5	4.42	4.32	0.096	2.25	1.27
DEC 9,81	DEC 8,81	65.	*****	*****	3.98	*****	4.30	0.88
DEC 15,81	DEC 14,81	130.	94.0	*****	3.72	*****	8.75	1.89
DEC 22,81	DEC 21,81	398.	40.5	4.20	4.27	0.122	2.35	1.17
DEC 23,81	DEC 22,81	443.	35.0	4.37	4.40	0.111	2.90	1.12
DEC 29,81	DEC 28,81	423.	19.5	4.40	4.45	0.077	1.10	0.50
JAN 1,82	DEC 31,81	376.	15.2	4.56	4.57	0.073	1.25	0.30

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WHITMAN CREEK/DAILY/SES #09

SAMPLE DATE	INITIAL DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
APR 11.81	APR 10.81	1.04	0.27	0.165	0.130	0.190	0.560
APR 15.81	APR 14.81	0.45	0.14	0.075	0.030	0.090	0.294
APR 18.81	APR 17.81	0.91	0.12	0.135	0.050	0.060	0.790
APR 20.81	APR 19.81	2.10	0.18	0.260	0.190	0.160	0.630
APR 24.81	APR 23.81	0.23	0.11	0.035	0.090	0.040	0.420
APR 25.81	APR 24.81	0.09	0.17	0.005	0.020	0.060	0.348
APR 28.81	APR 27.81	0.86	0.29	0.115	U 0.400	0.160	1.540
NOV 7.81	NOV 6.81	0.07	0.16	0.030	0.580	0.180	0.230
NOV 16.81	NOV 15.81	3.10	0.39	0.360	0.170	0.120	1.400
NOV 17.81	NOV 16.81	0.24	0.34	0.045	0.020	0.180	0.264
NOV 19.81	NOV 18.81	0.21	0.10	0.010	0.020	0.040	0.470
NOV 20.81	NOV 19.81	0.30	0.39	0.005	0.260	0.190	0.820
NOV 21.81	NOV 20.81	0.27	0.18	0.030	0.080	0.080	0.690
NOV 27.81	NOV 26.81	1.34	0.14	0.100	0.080	0.070	0.214
DEC 2.81	DEC 1.81	1.83	0.49	0.185	0.120	0.220	1.320
DEC 3.81	DEC 2.81	*****	*****	*****	*****	*****	*****
DEC 8.81	DEC 7.81	0.99	0.22	0.090	0.050	0.050	0.550
DEC 9.81	DEC 8.81	*****	0.14	*****	*****	*****	0.390
DEC 15.81	DEC 14.81	0.54	0.91	0.040	0.060	0.380	1.070
DEC 22.81	DEC 21.81	0.97	1.28	0.075	0.040	0.860	0.360
DEC 23.81	DEC 22.81	0.82	0.52	0.120	0.070	0.350	0.740
DEC 29.81	DEC 28.81	0.16	0.56	0.010	0.020	0.380	0.186
JAN 1.82	DEC 31.81	0.26	0.17	0.040	0.070	0.090	0.150

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAILTON/DAILY/AEROCHEM #10 PAGE : 1

SAMPLE DATE	INITIAL DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
JUL 15,80	JUL 14,80	800	810	400	730	1	0.8	1	493	2	1	85		
JUL 16,80	JUL 15,80	810	810	2330	200	1	0.2	1	494	2	1	187		
JUL 21,80	JUL 20,80	810	755	1000	300	1	19.0	1	495	2	1	107		
JUL 22,80	JUL 21,80	755	750	100	230	1	6.4	1	496	2	1	84		L
JUL 23,80	JUL 22,80	750	800	900	1300	1	2.0	1	497	2	1	90		
JUL 24,80	JUL 23,80	800	750	1330	1430	1	7.4	1	498	2	1	99		M
JUL 27,80	JUL 26,80	750	855	****	****	1	3.4	1	1	2	1	102	A	
JUL 28,80	JUL 27,80	855	720	130	230	1	5.2	1	2	2	1	103		
JUL 29,80	JUL 28,80	720	745	1900	745	1	66.2	1	3	2	1	104		
JUL 30,80	JUL 29,80	745	****	****	****	1	7.0	1	4	2	1	98	AF	M
AUG 3,80	AUG 2,80	805	820	2045	200	1	3.7	1	5	2	1	90		L
AUG 6,80	AUG 5,80	820	810	****	****	1	1.0	1	6	2	1	82		
AUG 12,80	AUG 6,80	810	755	****	****	1	34.8	1	7	2	1	23		NFJ
AUG 13,80	AUG 12,80	755	700	****	****	1	6.8	1	8	2	1	109		
AUG 15,80	AUG 14,80	700	745	1000	1400	1	17.2	1	9	2	1	97		J
AUG 20,80	AUG 19,80	745	802	30	1600	1	1.6	1	10	2	1	64	G	
AUG 28,80	AUG 27,80	802	802	****	****	1	9.8	1	11	2	1	99		
SEP 1,80	AUG 31,80	800	830	2300	500	1	22.2	1	12	2	1	103		
SEP 3,80	SEP 2,80	830	800	1300	1530	1	25.0	1	13	2	1	110		J
SEP 10,80	SEP 9,80	800	750	1630	1830	1	14.5	1	14	2	1	98		L
SEP 14,80	SEP 13,80	750	915	2000	2000	1	8.7	1	15	2	1	113		
SEP 15,80	SEP 14,80	915	800	1000	1230	1	9.4	1	16	2	1	97		
SEP 18,80	SEP 15,80	800	810	****	****	1	1.2	1	2456	2	1	57		X
SEP 22,80	SEP 21,80	810	800	2000	2130	1	6.2	1	17	2	1	117		
SEP 23,80	SEP 22,80	800	800	2000	2200	1	8.2	1	18	2	1	103		
SEP 26,80	SEP 26,80	400	530	400	530	1	14.0	1	2457	2	1	104		
OCT 3,80	OCT 2,80	800	****	800	1800	1	3.0	1	19	2	1	93		
OCT 5,80	OCT 4,80	830	910	830	1645	1	17.4	1	20	2	1	100		
OCT 7,80	OCT 6,80	830	950	1900	2400	1	2.8	1	21	2	1	71		
OCT 11,80	OCT 10,80	800	830	300	800	1	8.7	1	22	2	1	36		NL
OCT 18,80	OCT 17,80	830	1110	****	****	1	4.0	1	23	2	1	62		
OCT 20,80	OCT 19,80	1110	800	****	****	1	0.4	1	24	2	1	7		C
OCT 25,80	OCT 24,80	800	915	****	****	1	2.1	1	25	2	1	60		
OCT 26,80	OCT 25,80	915	830	****	****	1	55.0	1	26	2	1	106	B	
OCT 27,80	OCT 26,80	830	805	2000	****	3	1.2	1	27	2	1	97		
NOV 4,80	NOV 3,80	815	815	400	700	1	2.2	1	28	2	1	98		L
NOV 8,80	NOV 7,80	800	750	****	****	1	8.0	1	29	2	1	78		L
NOV 9,80	NOV 8,80	800	1100	****	****	3	23.1	1	30	2	1	100		L
NOV 14,80	NOV 13,80	800	750	****	****	1	8.0	1	31	2	1	92		L
NOV 18,80	NOV 17,80	800	800	****	****	2	****	*	32	2	1	****		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAILTON/DAILY/AEROCHEM #10

SAMPLE DATE	INITIAL DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ MG/L	SULPHATE MG/L	NITRATE AS N MG/L
JUL 15,80	JUL 14,80	44.	*****	*****	3.86	*****	> 10.00	> 2.00
JUL 16,80	JUL 15,80	24.	*****	*****	3.97	*****	*****	*****
JUL 21,80	JUL 20,80	1315.	34.3	4.05	4.17	0.097	3.00	0.55
JUL 22,80	JUL 21,80	346.	52.0	*****	3.91	0.201	6.30	0.91
JUL 23,80	JUL 22,80	116.	*****	*****	4.34	*****	1.50	0.52
JUL 24,80	JUL 23,80	472.	4.7	4.82	4.86	0.046	0.45	0.05
JUL 27,80	JUL 26,80	224.	*****	*****	3.93	*****	4.95	0.84
JUL 28,80	JUL 27,80	345.	18.3	*****	3.40	0.541	20.80	1.52
JUL 29,80	JUL 28,80	4453.	25.1	4.24	4.30	0.073	2.35	0.26
JUL 30,80	JUL 29,80	444.	22.3	4.33	4.34	0.070	2.35	0.37
AUG 3,80	AUG 2,80	215.	69.0	*****	3.97	0.161	8.30	1.47
AUG 6,80	AUG 5,80	53.	*****	*****	3.84	*****	*****	*****
AUG 12,80	AUG 6,80	U 516.	11.9	3.98	5.42	0.031	2.20	0.27
AUG 13,80	AUG 12,80	477.	26.6	4.42	4.34	0.074	3.00	0.30
AUG 15,80	AUG 14,80	1071.	62.5	U 5.01	3.88	0.171	6.65	0.89
AUG 20,80	AUG 19,80	66.	*****	*****	3.81	*****	*****	*****
AUG 28,80	AUG 27,80	622.	73.0	3.62	3.86	0.176	8.45	0.70
SEP 1,80	AUG 31,80	1472.	31.9	3.92	4.18	0.088	2.85	0.34
SEP 3,80	SEP 2,80	1771.	14.5	4.17	4.52	0.050	1.25	0.14
SEP 10,80	SEP 9,80	913.	50.5	4.03	4.02	0.127	5.50	0.77
SEP 14,80	SEP 13,80	632.	49.8	4.01	3.99	0.151	4.55	0.64
SEP 15,80	SEP 14,80	588.	59.0	3.95	3.92	0.152	6.20	0.74
SEP 18,80	SEP 15,80	44.	*****	*****	*****	*****	*****	*****
SEP 22,80	SEP 21,80	466.	49.5	3.85	3.97	0.155	5.45	0.60
SEP 23,80	SEP 22,80	542.	43.4	4.15	4.04	0.150	4.25	0.59
SEP 26,80	SEP 26,80	934.	48.6	4.12	3.99	0.152	3.10	1.04
OCT 3,80	OCT 2,80	180.	*****	*****	3.73	0.207	8.00	1.08
OCT 5,80	OCT 4,80	1121.	22.5	4.35	4.24	0.086	1.40	0.48
OCT 7,80	OCT 6,80	128.	*****	*****	3.77	0.180	4.95	1.28
OCT 11,80	OCT 10,80	U 202.	*****	*****	3.52	0.333	11.80	3.00
OCT 18,80	OCT 17,80	159.	76.0	*****	3.72	0.207	7.20	0.99
OCT 20,80	OCT 19,80	2.	*****	*****	*****	*****	*****	*****
OCT 25,80	OCT 24,80	81.	*****	*****	4.15	0.106	*****	*****
OCT 26,80	OCT 25,80	3750.	3.2	5.10	5.21	0.038	0.30	0.05
OCT 27,80	OCT 26,80	75.	*****	*****	4.71	*****	*****	*****
NOV 4,80	NOV 3,80	139.	*****	*****	3.88	*****	4.15	0.99
NOV 8,80	NOV 7,80	404.	34.6	4.33	4.19	0.102	2.65	1.05
NOV 9,80	NOV 8,80	1485.	44.8	4.20	4.12	0.120	4.10	1.35
NOV 14,80	NOV 13,80	473.	40.4	4.15	4.05	0.131	3.20	0.86
NOV 18,80	NOV 17,80	27.	*****	*****	6.74	*****	*****	*****

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAILTON/DAILY/AEROCHEM #10 PAGE : 3

SAMPLE DATE	INITIAL DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
JUL 15,80	JUL 14,80	*****	> 1.50	*****	*****	*****	*****
JUL 16,80	JUL 15,80	*****	*****	*****	*****	*****	*****
JUL 21,80	JUL 20,80	0.26	0.10	0.030	0.020	0.060	0.230
JUL 22,80	JUL 21,80	0.54	0.71	0.080	0.150	0.040	1.060
JUL 23,80	JUL 22,80	*****	0.21	*****	*****	*****	0.146
JUL 24,80	JUL 23,80	0.11	0.07	0.005	0.020	0.020	0.092
JUL 27,80	JUL 26,80	0.52	0.30	0.050	0.090	0.110	0.326
JUL 28,80	JUL 27,80	0.30	0.54	0.040	0.080	0.080	1.340
JUL 29,80	JUL 28,80	0.07	0.30	0.025	0.020	0.180	0.172
JUL 30,80	JUL 29,80	0.10	0.07	0.005	0.020	0.030	0.110
AUG 3,80	AUG 2,80	1.44	0.50	0.195	0.330	0.150	1.260
AUG 6,80	AUG 5,80	*****	*****	*****	*****	*****	*****
AUG 12,80	AUG 6,80	0.88	0.06	0.090	0.210	0.070	0.162
AUG 13,80	AUG 12,80	0.32	0.30	0.025	0.040	0.060	0.336
AUG 15,80	AUG 14,80	0.28	0.21	0.035	0.030	0.040	0.800
AUG 20,80	AUG 19,80	*****	*****	*****	*****	*****	*****
AUG 28,80	AUG 27,80	0.66	0.15	0.090	0.040	0.050	0.930
SEP 1,80	AUG 31,80	0.07	0.11	0.005	0.020	0.030	0.304
SEP 3,80	SEP 2,80	0.05	0.04	< 0.005	< 0.010	< 0.010	0.150
SEP 10,80	SEP 9,80	0.61	0.17	0.105	0.040	0.020	0.560
SEP 14,80	SEP 13,80	0.25	0.18	0.035	0.040	0.030	0.328
SEP 15,80	SEP 14,80	0.13	0.15	0.010	0.020	0.040	0.790
SEP 18,80	SEP 15,80	*****	*****	*****	*****	*****	*****
SEP 22,80	SEP 21,80	0.31	0.21	0.045	0.030	0.100	0.600
SEP 23,80	SEP 22,80	0.26	0.20	0.025	0.020	0.080	0.430
SEP 26,80	SEP 26,80	0.19	0.23	0.025	0.060	0.090	0.362
OCT 3,80	OCT 2,80	0.60	0.23	0.085	0.090	0.110	0.680
OCT 5,80	OCT 4,80	0.08	0.02	0.005	0.020	0.010	0.220
OCT 7,80	OCT 6,80	0.40	0.46	0.045	0.110	0.100	0.490
OCT 11,80	OCT 10,80	1.19	0.45	0.145	0.150	0.170	1.650
OCT 18,80	OCT 17,80	0.58	0.62	0.080	0.130	0.380	0.366
OCT 20,80	OCT 19,80	*****	*****	*****	*****	*****	*****
OCT 25,80	OCT 24,80	*****	*****	*****	*****	*****	0.580
OCT 26,80	OCT 25,80	0.08	< 0.01	< 0.005	0.020	0.020	0.004
OCT 27,80	OCT 26,80	*****	*****	*****	*****	*****	0.054
NOV 4,80	NOV 3,80	0.43	0.29	0.025	0.050	0.120	0.274
NOV 8,80	NOV 7,80	0.39	0.23	0.055	0.080	0.070	0.680
NOV 9,80	NOV 8,80	0.99	0.24	0.100	0.060	0.055	0.920
NOV 14,80	NOV 13,80	0.42	0.23	0.040	0.090	0.095	0.410
NOV 18,80	NOV 17,80	*****	*****	*****	*****	*****	*****

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAILTON/DAILY/AEROCHEM #10 PAGE : 4

SAMPLE DATE	INITIAL DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
NOV 22,80	NOV 21,80	800	800	****	****	1	0.8	1	33	2	1	126		N
NOV 24,80	NOV 23,80	800	745	****	****	1	0.6	1	34	2	1	80		
NOV 25,80	NOV 24,80	745	750	745	750	1	15.0	1	35	2	1	92		J
NOV 26,80	NOV 25,80	750	745	****	****	3	2.6	1	36	2	1	58		
NOV 28,80	NOV 27,80	800	800	****	****	3	3.6	1	37	2	1	59		L
NOV 29,80	NOV 28,80	800	800	****	****	3	8.6	1	38	2	1	93		L
DEC 3,80	DEC 2,80	800	800	****	****	3	37.6	1	39	2	1	93		L
DEC 8,80	DEC 7,80	800	800	1800	800	1	4.2	1	40	2	1	145		NJ
DEC 9,80	DEC 8,80	800	820	800	2100	1	19.2	1	41	2	1	90		MN
DEC 10,80	DEC 9,80	820	800	1700	2300	2	****	*	42	2	1	****		
DEC 13,80	DEC 12,80	800	800	****	****	2	7.7	1	43	2	1	66		M
DEC 20,80	DEC 19,80	700	700	****	****	2	0.1	1	44	2	1	280		L
DEC 23,80	DEC 22,80	800	800	****	****	2	****	*	45	2	1	****	G	L
DEC 25,80	DEC 24,80	800	900	1000	2100	2	4.8	1	46	2	1	44		N
DEC 27,80	DEC 26,80	800	800	800	800	2	0.8	1	47	2	1	9		C
JAN 1,81	DEC 31,80	800	800	****	****	2	3.8	1	48	2	1	65		L
JAN 7,81	JAN 6,81	800	730	****	****	2	6.9	1	49	2	1	29		N
JAN 10,81	JAN 9,81	800	800	1300	2000	2	0.7	1	50	2	1	44		
JAN 17,81	JAN 16,80	800	900	****	****	2	3.0	1	51	2	1	43		N
JAN 23,81	JAN 22,81	800	800	830	2030	2	****	*	52	2	1	****		
JAN 26,81	JAN 25,81	800	800	2200	2300	1	****	*	53	2	1	****		
FEB 2,81	FEB 1,81	800	800	1300	800	3	9.5	1	54	2	1	69		
FEB 3,81	FEB 2,81	800	****	****	****	3	****	*	55	2	1	****		M
FEB 7,81	FEB 6,81	800	920	****	****	2	****	2	56	2	1	****		L
FEB 10,81	FEB 9,81	800	745	****	****	2	2.4	2	2458	2	1	18	E	
FEB 11,81	FEB 10,81	800	800	1500	800	1	36.4	2	57	2	1	57		
FEB 12,81	FEB 11,81	800	800	800	2400	3	8.4	2	58	2	1	100		
FEB 17,81	FEB 16,81	800	800	1600	2000	1	****	*	59	2	1	****		L
FEB 20,81	FEB 19,81	830	800	830	2000	1	24.6	2	2459	2	1	101		X
FEB 21,81	FEB 20,81	800	800	1100	****	1	20.6	2	1844	2	1	103		
FEB 24,81	FEB 23,81	800	800	****	****	1	27.8	2	1847	2	1	100		
FEB 28,81	FEB 27,81	800	800	****	****	3	****	*	1850	2	1	****		
MAR 2,81	MAR 1,81	800	800	****	730	2	0.2	2	2142	2	1	163	E	
MAR 7,81	MAR 6,81	800	800	****	800	3	1.7	2	1853	2	1	27		
MAR 11,81	MAR 10,81	800	800	****	****	2	0.6	2	2460	2	1	41	E	
MAR 12,81	MAR 11,81	800	800	****	****	2	0.5	2	2461	2	1	49	E	
MAR 13,81	MAR 12,81	800	800	1000	1800	2	2.4	2	1855	2	1	35		N
MAR 14,81	MAR 13,81	800	800	2000	2100	2	0.5	2	2444	2	1	31	E	
MAR 16,81	MAR 15,81	800	800	1600	1700	3	1.0	2	1857	2	1	127		N
MAR 18,81	MAR 17,81	800	800	815	1800	2	6.6	2	1859	2	1	26		N

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAILTON/DAILY/AEROCHEM #10 PAGE : 5

SAMPLE DATE	INITIAL DATE		VOLUME ML	CONDUCT. UMHO/CM		PH FIELD		PH LAB	TOTAL H+ MG/L	SULPHATE MG/L	NITRATE AS N MG/L
NOV 22,80	NOV 21,80		65.	*****		*****		3.84	*****	5.40	2.18
NOV 24,80	NOV 23,80		31.	*****		*****		4.45	*****	*****	*****
NOV 25,80	NOV 24,80		891.	22.4	U	3.36		4.29	0.092	1.40	0.34
NOV 26,80	NOV 25,80		98.	*****		*****		4.45	*****	1.55	0.46
NOV 28,80	NOV 27,80		137.	*****		*****		5.03	*****	3.15	0.28
NOV 29,80	NOV 28,80		518.	23.5		4.45		4.26	0.075	1.65	0.46
DEC 3,80	DEC 2,80		2257.	27.0		4.34		4.19	0.091	1.75	0.50
DEC 8,80	DEC 7,80		392.	29.0		4.57		4.10	0.098	2.45	0.41
DEC 9,80	DEC 8,80		1116.	32.0		4.84	U	4.00	0.103	2.85	0.36
DEC 10,80	DEC 9,80		91.	*****		*****		6.20	*****	0.45	0.18
DEC 13,80	DEC 12,80		329.	30.0		*****	U	4.09	0.086	0.45	0.14
DEC 20,80	DEC 19,80		18.	*****		*****		6.90	*****	3.00	1.12
DEC 23,80	DEC 22,80		130.	*****		*****		4.24	*****	3.00	1.12
DEC 25,80	DEC 24,80	U	137.	24.0		*****		4.18	*****	1.50	1.04
DEC 27,80	DEC 26,80		5.	*****		*****		*****	*****	*****	*****
JAN 1,81	DEC 31,80		160.	32.0		*****		4.02	*****	0.50	0.98
JAN 7,81	JAN 6,81	U	129.	46.5		*****		3.94	*****	2.50	1.08
JAN 10,81	JAN 9,81		20.	*****		*****		3.73	*****	*****	*****
JAN 17,81	JAN 16,80	U	83.	*****		*****		3.85	*****	*****	*****
JAN 23,81	JAN 22,81		24.	*****		*****		4.72	*****	*****	*****
JAN 26,81	JAN 25,81		58.	*****		*****		3.97	*****	3.20	0.56
FEB 2,81	FEB 1,81		423.	36.5		4.16		4.13	0.111	1.15	0.85
FEB 3,81	FEB 2,81		171.	*****		*****		4.75	*****	0.55	0.29
FEB 7,81	FEB 6,81		102.	45.2		*****		4.03	*****	2.05	1.26
FEB 10,81	FEB 9,81		28.	*****		*****		*****	*****	*****	*****
FEB 11,81	FEB 10,81		1337.	22.2		4.03		4.35	0.076	0.80	0.40
FEB 12,81	FEB 11,81		543.	22.8		4.01		4.33	0.081	1.70	0.29
FEB 17,81	FEB 16,81		252.	*****		*****		4.22	0.094	2.55	0.49
FEB 20,81	FEB 19,81		1600.	*****		*****		*****	*****	*****	*****
FEB 21,81	FEB 20,81		1365.	4.9		4.53		4.96	0.038	0.30	0.12
FEB 24,81	FEB 23,81		1787.	14.1		4.36		4.72	0.043	1.00	0.17
FEB 28,81	FEB 27,81		105.	*****		*****		4.30	*****	4.70	0.64
MAR 2,81	MAR 1,81		21.	*****		*****		*****	*****	*****	*****
MAR 7,81	MAR 6,81		30.	*****		*****		5.08	*****	4.10	0.62
MAR 11,81	MAR 10,81		16.	*****		*****		*****	*****	*****	*****
MAR 12,81	MAR 11,81		16.	*****		*****		*****	*****	*****	*****
MAR 13,81	MAR 12,81	U	55.	*****		*****		4.89	*****	*****	*****
MAR 14,81	MAR 13,81		10.	*****		*****		*****	*****	*****	*****
MAR 16,81	MAR 15,81		82.	*****		*****		4.79	*****	2.70	0.60
MAR 18,81	MAR 17,81	U	114.	*****		*****		4.29	*****	1.05	0.89

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAILTON/DAILY/AEROCHEM #10

SAMPLE DATE	INITIAL DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
NOV 22,80	NOV 21,80	*****	0.85	*****	*****	*****	*****
NOV 24,80	NOV 23,80	*****	*****	*****	*****	*****	*****
NOV 25,80	NOV 24,80	0.08	0.11	0.005	0.040	0.050	0.130
NOV 26,80	NOV 25,80	0.46	0.20	0.035	0.090	0.170	*****
NOV 28,80	NOV 27,80	0.40	0.22	0.030	0.060	> 1.000	0.152
NOV 29,80	NOV 28,80	0.19	0.29	0.010	0.050	0.210	0.164
DEC 3,80	DEC 2,80	0.20	0.09	0.005	0.010	0.040	0.200
DEC 8,80	DEC 7,80	0.25	0.18	0.015	0.050	0.130	0.144
DEC 9,80	DEC 8,80	0.04	0.20	0.010	0.030	0.080	0.328
DEC 10,80	DEC 9,80	*****	0.24	*****	*****	*****	*****
DEC 13,80	DEC 12,80	0.23	0.24	0.030	0.040	0.100	0.360
DEC 20,80	DEC 19,80	*****	1.29	*****	*****	*****	*****
DEC 23,80	DEC 22,80	0.92	1.29	0.095	0.170	U 1.750	0.090
DEC 25,80	DEC 24,80	0.76	0.40	0.090	0.160	0.170	0.126
DEC 27,80	DEC 26,80	*****	*****	*****	*****	*****	*****
JAN 1,81	DEC 31,80	0.13	0.31	0.010	0.040	0.160	0.056
JAN 7,81	JAN 6,81	0.25	0.52	0.025	0.070	0.250	0.314
JAN 10,81	JAN 9,81	*****	*****	*****	*****	*****	*****
JAN 17,81	JAN 16,80	*****	*****	*****	*****	*****	0.076
JAN 23,81	JAN 22,81	*****	*****	*****	*****	*****	*****
JAN 26,81	JAN 25,81	*****	0.38	*****	*****	*****	*****
FEB 2,81	FEB 1,81	0.16	0.16	0.015	0.010	0.040	0.144
FEB 3,81	FEB 2,81	0.10	0.15	0.005	0.040	0.100	0.052
FEB 7,81	FEB 6,81	*****	0.64	*****	*****	*****	0.370
FEB 10,81	FEB 9,81	*****	*****	*****	*****	*****	*****
FEB 11,81	FEB 10,81	0.06	0.25	0.030	0.020	0.130	0.110
FEB 12,81	FEB 11,81	0.10	0.11	0.020	0.010	0.050	0.106
FEB 17,81	FEB 16,81	0.23	0.39	0.035	0.040	0.310	0.180
FEB 20,81	FEB 19,81	*****	*****	*****	*****	*****	*****
FEB 21,81	FEB 20,81	0.01	0.02	< 0.005	< 0.010	0.030	0.052
FEB 24,81	FEB 23,81	0.14	1.11	0.095	0.030	0.710	0.072
FEB 28,81	FEB 27,81	*****	0.35	*****	*****	*****	0.620
MAR 2,81	MAR 1,81	*****	*****	*****	*****	*****	*****
MAR 7,81	MAR 6,81	*****	0.60	*****	*****	*****	*****
MAR 11,81	MAR 10,81	*****	*****	*****	*****	*****	*****
MAR 12,81	MAR 11,81	*****	*****	*****	*****	*****	*****
MAR 13,81	MAR 12,81	*****	*****	*****	*****	*****	0.850
MAR 14,81	MAR 13,81	*****	*****	*****	*****	*****	*****
MAR 16,81	MAR 15,81	*****	0.31	*****	*****	*****	0.328
MAR 18,81	MAR 17,81	0.37	0.47	0.050	0.020	0.160	0.218

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAILTON/DAILY/AEROCHEM #10 PAGE : 7

SAMPLE DATE	INITIAL DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
MAR 20,81	MAR 19,81	800	800	****	****	2	1.4	2	2462	2	1	16	E	
MAR 27,81	MAR 26,81	800	800	****	****	1	1.0	1	1861	2	1	79		
MAR 31,81	MAR 30,81	800	800	830	1500	1	12.0	1	1863	2	1	76	G	
APR 2,81	APR 1,81	800	800	****	****	1	4.5	1	1865	2	1	98	D	
APR 6,81	APR 4,81	800	800	****	****	3	12.6	1	1867	2	1	93		
APR 10,81	APR 9,81	800	800	****	****	1	2.6	1	2109	2	1	81		
APR 11,81	APR 10,81	800	800	****	****	1	3.2	1	2112	2	1	87		
APR 15,81	APR 14,81	800	800	****	****	1	18.0	1	2115	2	1	93		
APR 18,81	APR 17,81	800	800	****	****	1	14.6	1	2118	2	1	98		
APR 24,81	APR 23,81	800	800	****	****	1	11.7	1	2123	2	1	91	D	
APR 25,81	APR 24,81	800	800	****	****	1	4.4	1	23500	2	1	33		N
APR 29,81	APR 28,81	800	800	****	****	1	7.8	1	23503	2	1	****	GE	
MAY 6,81	MAY 5,81	800	800	****	****	1	4.0	1	23506	2	1	86		
MAY 11,81	MAY 10,81	800	800	****	****	1	21.6	1	23509	2	1	98		
MAY 12,81	MAY 11,81	800	800	****	****	1	9.1	1	23512	2	1	94		
MAY 23,81	MAY 22,81	800	800	****	****	1	5.0	1	23515	2	1	71		
MAY 26,81	MAY 25,81	745	800	1300	1430	1	1.8	1	23518	2	1	66		
MAY 28,81	MAY 27,81	745	800	1600	800	1	22.0	1	23521	2	1	99		
MAY 29,81	MAY 28,81	800	800	800	1000	1	3.4	1	23524	2	1	91		
MAY 30,81	MAY 29,81	800	800	****	****	1	4.7	1	23528	2	1	98		
MAY 31,81	MAY 30,81	800	800	100	300	1	1.2	1	23531	2	1	68		
JUN 4,81	JUN 3,81	800	800	1000	1200	1	1.4	1	23538	2	1	43	A	
JUN 5,81	JUN 4,81	800	800	****	800	1	2.6	1	23536	2	1	30		N
JUN 6,81	JUN 5,81	800	800	430	700	1	10.1	1	23533	2	1	100	GH	
JUN 9,81	JUN 8,81	800	800	1800	2400	1	4.0	1	23542	2	1	87	A	
JUN 13,81	JUN 12,81	800	800	****	****	1	2.0	1	23545	2	1	81		
JUN 15,81	JUN 14,81	800	800	1830	2130	1	14.0	1	23549	2	1	38		N
JUN 16,81	JUN 15,81	800	800	1800	2400	1	4.0	1	23551	2	1	89		
JUN 22,81	JUN 21,81	800	800	500	800	1	18.2	1	23557	2	1	104		
JUN 23,81	JUN 22,81	800	800	800	200	1	51.6	1	23554	2	1	111		
JUN 25,81	JUN 24,81	800	800	****	****	1	1.0	1	23560	2	1	45		
JUN 26,81	JUN 25,81	800	800	1700	1800	1	0.6	1	23563	2	1	5	E	
JUN 27,81	JUN 26,81	800	800	1000	1506	1	1.7	1	23566	2	1	121		
JUL 2,81	JUN 30,81	800	800	****	****	1	4.0	1	23569	2	1	86		
JUL 14,81	JUL 13,81	800	800	1700	1730	1	6.1	1	23572	2	1	110	C	
JUL 18,81	JUL 17,81	800	800	****	****	1	11.1	1	23575	2	1	102		
JUL 20,81	JUL 19,81	800	800	400	630	1	1.0	1	23578	2	1	21	E	
JUL 21,81	JUL 20,81	800	800	900	1930	1	8.0	1	23581	2	1	88		
JUL 27,81	JUL 26,81	800	800	****	****	1	3.0	1	23585	2	1	98		
JUL 29,81	JUL 28,81	800	800	****	****	1	24.4	1	23587	2	1	99		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAILTON/DAILY/AEROCHEM #10

SAMPLE DATE	INITIAL DATE		VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ MG/L	SULPHATE MG/L	NITRATE AS N MG/L
MAR 20,81	MAR 19,81		15.	*****	*****	*****	*****	*****	*****
MAR 27,81	MAR 26,81		51.	*****	*****	3.58	*****	8.65	2.70
MAR 31,81	MAR 30,81		586.	37.4	*****	4.16	0.107	4.15	0.44
APR 2,81	APR 1,81		284.	62.0	*****	3.95	0.155	5.55	1.24
APR 6,81	APR 4,81		756.	51.0	3.54	4.05	0.135	6.75	0.62
APR 10,81	APR 9,81		136.	*****	*****	4.17	*****	5.90	0.74
APR 11,81	APR 10,81		180.	*****	*****	4.13	*****	3.60	0.78
APR 15,81	APR 14,81		1080.	21.0	3.54	4.42	0.070	2.00	0.22
APR 18,81	APR 17,81		926.	26.9	3.55	4.39	0.079	2.75	0.60
APR 24,81	APR 23,81		689.	33.4	3.60	4.19	0.103	3.00	0.48
APR 25,81	APR 24,81	U	95.	*****	*****	5.26	*****	0.30	0.10
APR 29,81	APR 28,81		*****	*****	*****	*****	*****	*****	*****
MAY 6,81	MAY 5,81		221.	*****	*****	3.95	*****	5.05	0.91
MAY 11,81	MAY 10,81		1363.	25.0	4.16	4.30	0.080	2.35	0.37
MAY 12,81	MAY 11,81		552.	31.8	4.14	4.21	0.090	3.15	0.46
MAY 23,81	MAY 22,81		229.	*****	*****	4.08	*****	2.80	1.07
MAY 26,81	MAY 25,81		77.	*****	*****	3.63	*****	12.50	1.83
MAY 28,81	MAY 27,81		1408.	38.6	3.89	4.13	0.109	4.00	0.40
MAY 29,81	MAY 28,81		200.	*****	*****	4.22	*****	4.30	0.39
MAY 30,81	MAY 29,81		296.	40.5	*****	4.10	0.115	4.50	0.62
MAY 31,81	MAY 30,81		53.	*****	*****	3.96	*****	8.50	1.33
JUN 4,81	JUN 3,81		39.	*****	*****	3.68	*****	*****	*****
JUN 5,81	JUN 4,81	U	51.	*****	*****	4.38	*****	3.25	0.30
JUN 6,81	JUN 5,81		650.	27.4	4.57	5.34	0.042	4.70	1.01
JUN 9,81	JUN 8,81		225.	*****	*****	3.65	*****	11.90	1.42
JUN 13,81	JUN 12,81		104.	*****	*****	4.46	*****	2.70	0.40
JUN 15,81	JUN 14,81	U	346.	53.0	*****	3.98	0.142	5.65	0.56
JUN 16,81	JUN 15,81		229.	68.0	*****	3.87	0.181	5.35	1.40
JUN 22,81	JUN 21,81		1224.	35.7	4.00	4.15	0.100	3.45	0.36
JUN 23,81	JUN 22,81		3673.	14.7	4.34	4.51	0.058	1.50	0.13
JUN 25,81	JUN 24,81		29.	*****	*****	4.22	*****	*****	*****
JUN 26,81	JUN 25,81		2.	*****	*****	*****	*****	*****	*****
JUN 27,81	JUN 26,81		132.	*****	*****	4.79	*****	1.10	0.05
JUL 2,81	JUN 30,81		223.	*****	*****	3.66	*****	11.50	1.56
JUL 14,81	JUL 13,81		432.	14.2	4.65	5.00	0.042	2.20	0.34
JUL 18,81	JUL 17,81		731.	26.9	4.01	4.36	0.075	2.40	0.50
JUL 20,81	JUL 19,81		14.	*****	*****	*****	*****	*****	*****
JUL 21,81	JUL 20,81		454.	*****	*****	4.07	0.119	6.20	0.37
JUL 27,81	JUL 26,81		189.	*****	*****	3.32	*****	22.00	2.10
JUL 29,81	JUL 28,81		1551.	16.7	4.35	4.51	0.056	1.50	0.15

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAILTON/DAILY/AEROCHEM #10

SAMPLE DATE	INITIAL DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
MAR 20,81	MAR 19,81	*****	*****	*****	*****	*****	*****
MAR 27,81	MAR 26,81	*****	0.90	*****	*****	*****	*****
MAR 31,81	MAR 30,81	0.23	0.20	0.025	0.020	0.160	0.490
APR 2,81	APR 1,81	0.65	0.38	0.075	0.050	0.150	0.900
APR 6,81	APR 4,81	0.70	0.38	0.100	0.100	0.220	0.640
APR 10,81	APR 9,81	0.80	0.65	0.160	0.060	0.480	0.650
APR 11,81	APR 10,81	0.45	0.25	0.050	0.060	0.170	0.370
APR 15,81	APR 14,81	0.05	0.08	0.020	0.020	0.100	0.160
APR 18,81	APR 17,81	0.22	0.16	0.030	0.050	0.100	0.600
APR 24,81	APR 23,81	0.12	0.09	0.020	0.010	0.120	0.260
APR 25,81	APR 24,81	*****	0.12	*****	*****	*****	*****
APR 29,81	APR 28,81	*****	*****	*****	*****	*****	*****
MAY 6,81	MAY 5,81	0.48	0.47	0.045	0.090	0.310	0.364
MAY 11,81	MAY 10,81	0.16	0.26	0.010	0.040	0.200	0.190
MAY 12,81	MAY 11,81	0.21	0.31	0.020	0.050	0.200	0.326
MAY 23,81	MAY 22,81	0.50	0.33	0.030	0.040	0.320	0.154
MAY 26,81	MAY 25,81	*****	1.39	*****	*****	*****	*****
MAY 28,81	MAY 27,81	0.19	0.22	0.030	0.030	0.110	0.410
MAY 29,81	MAY 28,81	0.37	0.46	0.050	0.040	0.450	0.580
MAY 30,81	MAY 29,81	0.39	0.16	0.035	0.040	0.040	0.590
MAY 31,81	MAY 30,81	*****	0.90	*****	*****	*****	*****
JUN 4,81	JUN 3,81	*****	*****	*****	*****	*****	*****
JUN 5,81	JUN 4,81	0.39	0.27	*****	0.160	0.120	*****
JUN 6,81	JUN 5,81	1.34	0.37	0.265	0.120	0.280	1.100
JUN 9,81	JUN 8,81	0.86	0.45	0.150	0.110	0.220	1.320
JUN 13,81	JUN 12,81	0.43	0.64	0.035	0.200	0.660	0.266
JUN 15,81	JUN 14,81	0.14	0.24	0.015	0.050	0.090	0.630
JUN 16,81	JUN 15,81	0.85	0.74	0.145	0.050	0.550	0.272
JUN 22,81	JUN 21,81	0.08	0.10	0.005	0.020	0.070	0.540
JUN 23,81	JUN 22,81	0.04	0.03	< 0.005	< 0.010	0.050	0.198
JUN 25,81	JUN 24,81	*****	*****	*****	*****	*****	*****
JUN 26,81	JUN 25,81	*****	*****	*****	*****	*****	*****
JUN 27,81	JUN 26,81	0.12	0.20	0.015	0.040	0.290	0.006
JUL 2,81	JUN 30,81	0.70	0.53	0.115	0.120	0.250	1.110
JUL 14,81	JUL 13,81	0.77	0.22	0.050	0.070	< 0.010	0.366
JUL 18,81	JUL 17,81	0.45	0.15	0.065	0.020	0.030	0.212
JUL 20,81	JUL 19,81	*****	*****	*****	*****	*****	*****
JUL 21,81	JUL 20,81	0.42	0.20	0.030	0.050	0.200	0.700
JUL 27,81	JUL 26,81	0.30	0.57	0.035	0.060	0.280	0.870
JUL 29,81	JUL 28,81	0.09	0.05	0.005	0.020	0.030	0.140

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAILTON/DAILY/AEROCHEM #10

SAMPLE DATE	INITIAL DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
AUG 5,81	AUG 4,81	800	800	2200	600	1	6.8	1	23590	2	1	96		
AUG 6,81	AUG 5,81	800	800	800	900	1	0.5	1	23593	2	1	28	E	
AUG 8,81	AUG 7,81	800	800	30	500	1	5.0	1	23596	2	1	98		
AUG 11,81	AUG 10,81	800	800	500	800	1	2.0	1	23599	2	1	89	GHC	
AUG 12,81	AUG 11,81	800	800	800	1200	1	14.3	1	23602	2	1	101		
AUG 15,81	AUG 14,81	800	800	200	800	1	38.1	1	23605	2	1	104		
AUG 16,81	AUG 15,81	800	800	800	1600	1	16.9	1	23608	2	1	116		
AUG 28,81	AUG 27,81	800	800	****	****	1	2.2	1	23611	2	1	84		
AUG 29,81	AUG 28,81	800	800	100	300	1	1.8	1	23614	2	1	91		
AUG 31,81	AUG 30,81	800	800	130	3300	1	16.4	1	23617	2	1	101		
SEP 2,81	SEP 1,81	800	800	400	600	1	8.5	1	23620	2	1	103		
SEP 4,81	SEP 2,81	800	800	800	800	1	8.6	1	23623	2	1	81		
SEP 5,81	SEP 4,81	800	800	1900	400	1	41.0	1	23626	2	1	101	C	J
SEP 6,81	SEP 5,81	800	800	800	100	1	1.6	1	23629	2	1	62		
SEP 8,81	SEP 6,81	800	800	****	****	1	2.4	1	23632	2	1	87		
SEP 9,81	SEP 8,81	800	800	1200	1900	1	34.9	1	23635	2	1	106		
SEP 11,81	SEP 10,81	800	800	900	400	1	55.0	1	23638	2	1	104		J
SEP 18,81	SEP 17,81	800	800	1100	1400	1	7.6	1	23641	2	1	101		
SEP 20,81	SEP 19,81	800	800	****	****	1	2.0	1	23644	2	1	79		
SEP 23,81	SEP 21,81	800	800	1800	900	1	11.2	1	23647	2	1	90		J
SEP 24,81	SEP 23,81	800	800	800	1000	1	1.8	1	23650	2	1	59		
SEP 26,81	SEP 25,81	800	1800	****	1800	1	1.6	1	23653	2	1	86		
SEP 27,81	SEP 26,81	1800	1800	330	1400	1	13.6	1	23656	2	1	99		
SEP 28,81	SEP 27,81	1800	1800	****	****	1	0.4	1	23659	2	1	42	E	
OCT 1,81	SEP 30,81	1800	1800	1000	1800	1	2.8	1	23661	2	1	56		
OCT 2,81	OCT 1,81	1800	1800	1000	1600	1	0.8	1	23664	2	1	29	E	
OCT 7,81	OCT 6,81	800	800	1000	1400	1	12.3	1	23667	2	1	89		
OCT 8,81	OCT 7,81	800	800	800	1400	1	1.6	1	23670	2	1	66		
OCT 19,81	OCT 18,81	800	800	830	1400	1	13.2	1	23676	2	1	86		
OCT 22,81	OCT 21,81	800	800	1800	****	3	5.6	1	23679	2	1	95	C	
OCT 23,81	OCT 22,81	800	800	800	800	1	15.6	1	23682	2	1	88	C	
OCT 27,81	OCT 26,81	800	800	****	****	1	13.8	1	23685	2	1	90		
OCT 28,81	OCT 27,81	800	800	800	200	1	18.2	1	23688	2	1	94		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAILTON/DAILY/AEROCHEM #10

SAMPLE DATE	INITIAL DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ MG/L	SULPHATE MG/L	NITRATE AS N MG/L
AUG 5,81	AUG 4,81	421.	55.0	3.82	3.94	0.142	5.35	0.59
AUG 6,81	AUG 5,81	9.	*****	*****	*****	*****	*****	*****
AUG 8,81	AUG 7,81	315.	49.8	*****	3.99	0.135	4.20	0.53
AUG 11,81	AUG 10,81	115.	*****	*****	3.93	*****	4.60	0.92
AUG 12,81	AUG 11,81	932.	42.5	3.83	4.06	0.120	4.40	0.30
AUG 15,81	AUG 14,81	2546.	46.8	*****	4.07	0.130	4.50	0.61
AUG 16,81	AUG 15,81	1267.	47.2	*****	4.05	0.128	4.45	0.58
AUG 28,81	AUG 27,81	119.	*****	*****	3.97	*****	5.45	1.57
AUG 29,81	AUG 28,81	106.	*****	*****	3.65	*****	10.60	0.72
AUG 31,81	AUG 30,81	1072.	31.1	4.28	4.26	0.086	3.30	0.24
SEP 2,81	SEP 1,81	565.	57.0	3.99	3.96	0.143	4.90	0.76
SEP 4,81	SEP 2,81	450.	56.5	3.98	3.94	0.151	5.10	0.65
SEP 5,81	SEP 4,81	2663.	24.4	U 3.34	4.33	0.078	2.25	0.34
SEP 6,81	SEP 5,81	64.	*****	*****	5.54	*****	1.30	1.36
SEP 8,81	SEP 6,81	134.	*****	*****	3.94	*****	6.00	0.94
SEP 9,81	SEP 8,81	2391.	24.4	3.26	4.25	0.084	2.35	0.20
SEP 11,81	SEP 10,81	3700.	14.4	3.76	5.79	0.046	2.75	0.36
SEP 18,81	SEP 17,81	495.	16.4	4.45	4.48	0.058	1.65	0.18
SEP 20,81	SEP 19,81	102.	*****	*****	5.21	*****	3.75	0.88
SEP 23,81	SEP 21,81	647.	8.6	3.18	4.72	0.048	0.55	0.18
SEP 24,81	SEP 23,81	69.	*****	*****	6.13	*****	0.75	0.09
SEP 26,81	SEP 25,81	89.	*****	*****	3.67	*****	9.40	1.18
SEP 27,81	SEP 26,81	868.	41.8	4.16	4.12	0.109	4.45	0.44
SEP 28,81	SEP 27,81	11.	*****	*****	*****	*****	*****	*****
OCT 1,81	SEP 30,81	102.	*****	*****	3.94	*****	7.35	0.85
OCT 2,81	OCT 1,81	15.	*****	*****	*****	*****	*****	*****
OCT 7,81	OCT 6,81	708.	41.2	4.15	4.09	0.114	3.90	0.62
OCT 8,81	OCT 7,81	68.	*****	*****	6.15	*****	0.65	0.22
OCT 19,81	OCT 18,81	730.	24.6	4.37	4.28	0.081	2.40	0.29
OCT 22,81	OCT 21,81	344.	51.5	*****	4.01	0.137	4.55	1.46
OCT 23,81	OCT 22,81	888.	61.8	3.90	3.93	0.153	3.90	1.39
OCT 27,81	OCT 26,81	803.	9.3	4.76	4.88	0.042	0.80	0.12
OCT 28,81	OCT 27,81	1098.	16.0	4.48	4.53	0.055	0.90	0.23

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAILTON/DAILY/AEROCHEM #10

SAMPLE DATE	INITIAL DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
AUG 5,81	AUG 4,81	0.22	0.20	0.020	0.030	0.120	0.380
AUG 6,81	AUG 5,81	*****	*****	*****	*****	*****	*****
AUG 8,81	AUG 7,81	0.07	0.15	0.005	0.010	0.110	0.188
AUG 11,81	AUG 10,81	0.35	0.40	0.055	0.070	0.350	*****
AUG 12,81	AUG 11,81	0.02	0.05	< 0.005	0.010	0.020	0.404
AUG 15,81	AUG 14,81	0.18	0.14	0.035	0.060	0.060	0.520
AUG 16,81	AUG 15,81	0.16	0.15	0.030	0.040	0.050	0.510
AUG 28,81	AUG 27,81	1.43	0.35	0.225	0.040	0.080	*****
AUG 29,81	AUG 28,81	0.25	0.38	0.025	0.050	0.500	*****
AUG 31,81	AUG 30,81	0.05	0.11	0.005	0.010	0.080	0.280
SEP 2,81	SEP 1,81	0.12	0.34	0.020	0.080	0.300	0.420
SEP 4,81	SEP 2,81	0.10	0.23	0.020	0.040	0.150	0.440
SEP 5,81	SEP 4,81	0.17	0.12	0.015	0.020	0.050	0.228
SEP 6,81	SEP 5,81	*****	0.52	*****	*****	*****	*****
SEP 8,81	SEP 6,81	0.32	0.44	0.035	0.080	0.420	0.720
SEP 9,81	SEP 8,81	0.02	0.08	0.005	0.010	0.010	0.130
SEP 11,81	SEP 10,81	0.48	0.10	0.080	0.040	0.020	0.800
SEP 18,81	SEP 17,81	0.17	0.14	0.020	0.020	0.120	0.148
SEP 20,81	SEP 19,81	1.17	0.22	0.180	0.110	0.530	0.880
SEP 23,81	SEP 21,81	0.17	0.07	0.010	0.010	0.060	0.052
SEP 24,81	SEP 23,81	*****	0.68	*****	*****	*****	*****
SEP 26,81	SEP 25,81	*****	0.48	*****	*****	*****	*****
SEP 27,81	SEP 26,81	0.25	0.20	0.030	0.040	0.090	0.470
SEP 28,81	SEP 27,81	*****	*****	*****	*****	*****	*****
OCT 1,81	SEP 30,81	*****	0.65	*****	*****	*****	0.680
OCT 2,81	OCT 1,81	*****	*****	*****	*****	*****	*****
OCT 7,81	OCT 6,81	0.09	0.15	0.010	0.040	0.140	0.540
OCT 8,81	OCT 7,81	*****	0.65	*****	*****	*****	*****
OCT 19,81	OCT 18,81	0.14	0.23	0.020	0.100	0.110	0.308
OCT 22,81	OCT 21,81	0.91	0.30	0.070	0.100	0.080	0.710
OCT 23,81	OCT 22,81	0.56	0.34	0.040	0.120	0.230	0.370
OCT 27,81	OCT 26,81	0.08	0.18	0.020	0.060	0.070	0.104
OCT 28,81	OCT 27,81	0.06	0.16	0.020	0.040	0.080	0.058

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAILTON/DAILY/SES #10 PAGE : 1

SAMPLE DATE	INITIAL DATE	SAMPLING START/END HR.	SAMPLING START/END HR.	PRECIP START/END HR.	PRECIP START/END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
JAN 23,81	JAN 22,81	800	800	830	1030	2	****	*	2243	2	1	****		
JAN 26,81	JAN 25,81	800	800	2200	2300	1	****	*	2244	2	1	****		
FEB 2,81	FEB 1,81	800	800	1300	800	3	9.5	1	2245	2	1	88	G	
FEB 3,81	FEB 2,81	800	800	****	****	3	****	*	2246	2	1	****		
FEB 7,81	FEB 6,81	800	920	****	****	2	****	2	2247	2	1	****		
FEB 10,81	FEB 9,81	800	745	****	****	2	2.4	2	2248	2	1	33		N
FEB 11,81	FEB 10,81	800	800	1500	800	1	36.4	2	2249	2	1	63		
FEB 12,81	FEB 11,81	800	800	800	2400	3	8.4	2	2250	2	1	104		J
FEB 17,81	FEB 16,81	800	800	****	****	1	****	*	2251	2	1	****		
FEB 20,81	FEB 19,81	830	800	830	2000	1	24.6	1	2252	2	1	100		
FEB 21,81	FEB 20,81	800	800	1100	****	1	20.6	2	1845	2	1	75		
FEB 24,81	FEB 23,81	800	800	900	****	1	27.8	2	1848	2	1	76		
FEB 28,81	FEB 27,81	800	800	****	****	3	****	*	1851	2	1	****		
MAR 2,81	MAR 1,81	800	800	****	730	3	0.2	2	1852	2	1	570		N
MAR 3,81	MAR 2,81	800	800	800	1100	2	****	*	2144	2	1	****	E	
MAR 5,81	MAR 4,81	800	800	****	****	2	****	*	1831	2	1	****	C	
MAR 7,81	MAR 6,81	800	800	****	800	3	1.7	2	1832	2	1	66		
MAR 9,81	MAR 8,81	800	800	2230	800	2	****	*	1833	2	1	****		
MAR 11,81	MAR 10,81	800	800	****	800	2	0.6	2	1834	2	1	71		
MAR 12,81	MAR 11,81	800	800	1000	****	2	0.5	2	1835	2	1	102		
MAR 13,81	MAR 12,81	800	800	1000	1800	2	2.4	2	1836	2	1	46		N
MAR 14,81	MAR 13,81	800	800	2000	2100	2	0.5	2	1837	2	1	46		
MAR 16,81	MAR 15,81	800	800	1600	1700	3	1.0	2	1838	2	1	111		
MAR 18,81	MAR 17,81	800	800	815	1800	2	6.6	2	1839	2	1	32		N
MAR 20,81	MAR 19,81	800	800	****	****	2	1.4	2	1840	2	1	99		
MAR 27,81	MAR 26,81	800	800	****	****	1	1.0	1	1841	2	1	99	A	
MAR 31,81	MAR 30,81	800	800	830	1500	1	12.0	1	1842	2	1	90		
APR 2,81	APR 1,81	800	800	****	****	1	4.5	1	1843	2	1	90		
APR 6,81	APR 4,81	800	800	****	****	3	12.6	1	1868	2	1	84		
APR 10,81	APR 9,81	800	800	****	****	1	2.6	1	2110	2	1	69		
APR 11,81	APR 10,81	800	800	****	****	1	3.2	1	2113	2	1	76		
APR 15,81	APR 14,81	800	800	****	****	1	18.0	1	2116	2	1	84		
APR 18,81	APR 17,81	800	800	****	****	1	14.6	1	2119	2	1	103		
APR 24,81	APR 23,81	800	800	****	****	1	11.7	1	2122	2	1	97		
NOV 8,81	NOV 6,81	800	800	****	****	1	24.5	1	23693	2	1	5	HG	N
NOV 17,81	NOV 16,81	800	800	400	800	1	4.2	1	23696	2	1	100		
NOV 19,81	NOV 18,81	800	800	600	800	1	0.2	1	23698	2	1	548		N
NOV 20,81	NOV 19,81	800	800	100	730	1	4.2	1	23701	2	1	94		
NOV 21,81	NOV 20,81	800	800	****	****	3	5.2	2	23704	2	1	102		
NOV 23,81	NOV 22,81	****	800	****	****	3	0.5	2	23707	2	1	141		N

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAILTON/DAILY/SES #10

SAMPLE DATE	INITIAL DATE		VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ MG/L	SULPHATE MG/L	NITRATE AS N MG/L
JAN 23,81	JAN 22,81		119.	*****	*****	4.11	*****	3.85	0.82
JAN 26,81	JAN 25,81		137.	*****	*****	4.03	*****	4.85	0.94
FEB 2,81	FEB 1,81		1379.	23.5	4.84	4.79	0.049	2.35	0.87
FEB 3,81	FEB 2,81		365.	15.2	4.54	4.49	0.056	0.75	0.32
FEB 7,81	FEB 6,81		310.	47.5	*****	3.99	0.144	2.15	1.46
FEB 10,81	FEB 9,81	U	132.	45.6	*****	4.28	*****	2.70	1.63
FEB 11,81	FEB 10,81		3808.	20.8	4.19	4.40	0.070	1.35	0.41
FEB 12,81	FEB 11,81		1445.	23.3	3.44	4.29	0.080	1.90	0.28
FEB 17,81	FEB 16,81		638.	40.0	4.18	4.31	0.092	4.35	1.05
FEB 20,81	FEB 19,81		4055.	38.0	4.10	4.14	0.110	2.50	0.70
FEB 21,81	FEB 20,81		2553.	13.4	4.34	4.91	0.032	1.10	0.21
FEB 24,81	FEB 23,81		3468.	4.7	4.39	5.42	0.024	0.40	0.20
FEB 28,81	FEB 27,81		410.	42.0	4.26	4.48	0.079	6.95	1.16
MAR 2,81	MAR 1,81		187.	*****	*****	3.62	0.307	11.20	2.60
MAR 3,81	MAR 2,81		48.	*****	*****	*****	*****	*****	*****
MAR 5,81	MAR 4,81		69.	*****	*****	5.42	*****	2.75	2.07
MAR 7,81	MAR 6,81		186.	*****	*****	6.76	*****	2.00	0.18
MAR 9,81	MAR 8,81		52.	*****	*****	4.51	*****	4.25	0.40
MAR 11,81	MAR 10,81		70.	*****	*****	5.69	*****	3.85	0.44
MAR 12,81	MAR 11,81		84.	*****	*****	4.46	*****	3.40	0.33
MAR 13,81	MAR 12,81	U	183.	39.7	*****	6.50	*****	5.90	1.50
MAR 14,81	MAR 13,81		38.	*****	*****	6.59	*****	4.20	0.26
MAR 16,81	MAR 15,81		183.	*****	*****	7.09	*****	4.40	1.08
MAR 18,81	MAR 17,81	U	347.	25.0	*****	4.60	0.059	1.70	1.07
MAR 20,81	MAR 19,81		228.	*****	*****	5.65	0.026	0.70	0.30
MAR 27,81	MAR 26,81		163.	*****	*****	3.80	*****	11.00	6.00
MAR 31,81	MAR 30,81		1783.	31.7	4.42	4.59	0.071	5.40	0.70
APR 2,81	APR 1,81		664.	56.0	4.06	4.13	0.123	6.30	1.34
APR 6,81	APR 4,81		1751.	52.0	3.62	4.20	0.115	8.70	0.80
APR 10,81	APR 9,81		297.	47.4	*****	4.25	0.104	6.70	0.83
APR 11,81	APR 10,81		402.	38.0	3.64	4.38	0.084	4.95	0.94
APR 15,81	APR 14,81		2506.	19.2	3.70	4.53	0.058	2.50	0.25
APR 18,81	APR 17,81		2472.	28.5	3.87	4.55	0.064	3.95	0.84
APR 24,81	APR 23,81		1871.	34.0	3.58	4.21	0.098	3.60	0.58
NOV 8,81	NOV 6,81	U	215.	*****	*****	5.46	0.030	0.35	0.11
NOV 17,81	NOV 16,81		695.	31.0	3.69	4.21	0.094	2.25	0.65
NOV 19,81	NOV 18,81		180.	*****	*****	3.66	0.264	6.60	2.08
NOV 20,81	NOV 19,81		653.	42.8	4.04	4.08	0.123	3.20	0.92
NOV 21,81	NOV 20,81		876.	51.5	3.95	3.98	0.143	3.15	1.10
NOV 23,81	NOV 22,81		116.	*****	*****	4.40	*****	0.65	0.54

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAILTON/DAILY/SES #10

SAMPLE DATE	INITIAL DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
JAN 23,81	JAN 22,81	*****	0.44	*****	*****	*****	0.730
JAN 26,81	JAN 25,81	1.04	1.60	0.100	0.040	1.150	0.450
FEB 2,81	FEB 1,81	1.71	0.52	0.125	0.100	0.300	0.178
FEB 3,81	FEB 2,81	0.04	0.07	0.005	0.040	< 0.010	0.080
FEB 7,81	FEB 6,81	0.53	0.90	0.075	0.090	0.290	0.380
FEB 10,81	FEB 9,81	1.94	1.46	0.230	0.090	0.820	0.380
FEB 11,81	FEB 10,81	0.13	0.31	0.040	0.030	0.180	0.124
FEB 12,81	FEB 11,81	0.04	0.08	0.015	< 0.010	0.020	0.118
FEB 17,81	FEB 16,81	1.06	0.87	0.170	0.100	0.830	0.590
FEB 20,81	FEB 19,81	0.10	0.19	0.160	0.020	0.100	0.292
FEB 21,81	FEB 20,81	0.32	1.12	0.120	0.030	0.700	0.086
FEB 24,81	FEB 23,81	0.26	0.05	0.035	0.040	0.030	0.078
FEB 28,81	FEB 27,81	2.25	0.34	0.220	0.090	0.640	1.110
MAR 2,81	MAR 1,81	*****	0.48	*****	*****	*****	1.690
MAR 3,81	MAR 2,81	*****	*****	*****	*****	*****	*****
MAR 5,81	MAR 4,81	*****	0.86	*****	*****	*****	0.550
MAR 7,81	MAR 6,81	1.40	0.76	0.130	0.040	0.540	0.214
MAR 9,81	MAR 8,81	*****	0.55	*****	*****	*****	*****
MAR 11,81	MAR 10,81	*****	0.46	*****	*****	*****	0.500
MAR 12,81	MAR 11,81	*****	0.56	*****	*****	*****	0.304
MAR 13,81	MAR 12,81	2.30	1.01	0.500	0.130	0.440	1.510
MAR 14,81	MAR 13,81	*****	0.58	*****	*****	*****	*****
MAR 16,81	MAR 15,81	2.75	0.48	0.395	0.140	0.250	1.000
MAR 18,81	MAR 17,81	1.19	0.59	0.185	0.040	0.220	0.380
MAR 20,81	MAR 19,81	0.58	0.45	0.100	< 0.010	0.250	0.074
MAR 27,81	MAR 26,81	5.80	2.10	0.640	0.240	0.890	1.830
MAR 31,81	MAR 30,81	1.66	0.34	0.135	0.040	0.250	0.660
APR 2,81	APR 1,81	1.43	0.38	0.175	0.060	0.130	1.060
APR 6,81	APR 4,81	1.69	0.45	0.220	0.150	0.310	0.900
APR 10,81	APR 9,81	1.24	0.64	0.195	0.080	0.470	0.840
APR 11,81	APR 10,81	1.52	0.26	0.150	0.080	0.140	0.790
APR 15,81	APR 14,81	0.44	0.14	0.055	0.010	0.110	0.214
APR 18,81	APR 17,81	1.06	0.13	0.125	0.020	0.060	0.810
APR 24,81	APR 23,81	0.50	0.22	0.070	0.010	0.180	0.330
NOV 8,81	NOV 6,81	0.22	0.19	< 0.005	0.080	0.120	0.060
NOV 17,81	NOV 16,81	0.27	0.30	0.045	0.040	0.190	0.310
NOV 19,81	NOV 18,81	0.48	0.27	0.020	0.040	0.080	*****
NOV 20,81	NOV 19,81	0.34	0.09	0.025	0.040	0.050	0.520
NOV 21,81	NOV 20,81	0.14	0.11	< 0.005	0.200	0.030	0.460
NOV 23,81	NOV 22,81	*****	0.02	*****	*****	*****	0.108

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAILTON/DAILY/SES #10 PAGE : 4

SAMPLE DATE	INITIAL DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
NOV 27,81	NOV 26,81	800	800	****	****	1	7.8	2	23710	2	1	103		J
DEC 2,81	DEC 1,81	800	800	2200	200	1	1.4	2	23713	2	1	109		
DEC 8,81	DEC 7,81	800	800	1700	800	3	3.0	2	23716	2	1	111		J
DEC 9,81	DEC 8,81	800	800	800	1200	3	2.2	2	23719	2	1	50		
DEC 11,81	DEC 10,81	800	800	1600	2200	2	1.8	2	23722	2	1	26		N
DEC 15,81	DEC 14,81	800	800	1900	2400	2	****	2	23725	2	1	****		
DEC 22,81	DEC 21,81	800	800	****	****	2	****	*	23728	2	1	****		
DEC 24,81	DEC 22,81	800	800	****	****	2	15.2	2	23731	2	1	83		
DEC 28,81	DEC 26,81	800	800	****	****	2	13.1	2	23734	2	1	71		
DEC 29,81	DEC 28,81	800	800	2000	200	2	6.6	2	23735	2	1	61		
JAN 1,82	DEC 31,81	800	800	2100	200	2	19.4	2	23738	2	1	63		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAILTON/DAILY/SES #10

SAMPLE DATE	INITIAL DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ MG/L	SULPHATE MG/L	NITRATE AS N MG/L
NOV 27.81	NOV 26.81	1321.	38.5	3.21	4.14	0.105	3.55	0.64
DEC 2.81	DEC 1.81	252.	84.0	*****	3.86	*****	7.20	1.71
DEC 8.81	DEC 7.81	549.	35.8	3.28	4.35	0.093	2.75	1.43
DEC 9.81	DEC 8.81	182.	*****	*****	4.04	*****	2.50	0.96
DEC 11.81	DEC 10.81	U 78.	5.0	*****	5.99	*****	0.35	0.07
DEC 15.81	DEC 14.81	67.	*****	*****	3.60	*****	12.80	2.80
DEC 22.81	DEC 21.81	560.	19.0	6.17	6.32	0.048	2.00	0.80
DEC 24.81	DEC 22.81	2070.	34.0	4.03	4.07	0.113	2.25	0.50
DEC 28.81	DEC 26.81	1535.	24.1	4.22	4.36	0.084	1.45	0.38
DEC 29.81	DEC 28.81	668.	20.8	4.24	4.29	0.076	0.60	0.60
JAN 1.82	DEC 31.81	2012.	27.5	4.13	4.20	0.086	1.90	0.40

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAILTON/DAILY/SES #10

SAMPLE DATE	INITIAL DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
NOV 27,81	NOV 26,81	0.35	0.24	0.045	0.050	0.140	0.390
DEC 2,81	DEC 1,81	0.86	0.44	0.095	0.080	0.180	0.890
DEC 8,81	DEC 7,81	1.47	0.23	0.080	0.040	0.070	0.730
DEC 9,81	DEC 8,81	0.09	0.10	0.010	< 0.010	0.050	0.390
DEC 11,81	DEC 10,81	*****	0.15	*****	*****	*****	*****
DEC 15,81	DEC 14,81	*****	1.08	*****	*****	*****	1.730
DEC 22,81	DEC 21,81	2.40	0.28	0.145	0.050	0.210	0.248
DEC 24,81	DEC 22,81	0.12	0.11	< 0.005	0.020	0.050	0.150
DEC 28,81	DEC 26,81	0.09	0.04	< 0.005	0.010	0.020	0.202
DEC 29,81	DEC 28,81	0.16	0.08	< 0.005	0.010	0.040	0.146
JAN 1,82	DEC 31,81	0.08	0.08	0.010	0.050	0.070	0.212

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : CHARLESTON LAKE/DAILY/AEROCHEM #11 PAGE : 1

SAMPLE DATE	INITIAL DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
MAY 6,81	MAY 5,81	745	745	****	****	1	2.4	1	23009	2	1	61	GF	
MAY 11,81	MAY 10,81	745	745	****	****	1	18.2	1	23011	2	1	49	F	N
MAY 12,81	MAY 11,81	745	745	****	****	1	25.5	1	23013	2	1	26		N
MAY 13,81	MAY 12,81	745	745	****	****	1	1.2	1	23015	2	1	84	F	
MAY 16,81	MAY 15,81	745	745	****	****	1	8.2	1	23019	2	1	****	FEK	
MAY 17,81	MAY 16,81	745	745	****	****	1	4,1	1	23017	2	1	82		
MAY 26,81	MAY 25,81	745	745	1000	1630	1	3.0	1	23021	2	1	94		
MAY 28,81	MAY 27,81	745	745	****	****	1	34.8	1	23023	2	1	100		
MAY 29,81	MAY 28,81	745	745	800	1130	1	8.2	1	23025	2	1	80	GH	
MAY 31,81	MAY 30,81	745	1000	745	9000	1	4.2	1	23027	2	1	84	HG	
JUN 4,81	JUN 3,81	745	745	1100	1530	1	6.4	1	23029	2	1	118	GH	
JUN 5,81	JUN 4,81	745	740	****	1400	1	22.7	1	23031	2	1	98	AGH	
JUN 6,81	JUN 5,81	740	800	100	600	1	4.0	1	23033	2	1	101		
JUN 7,81	JUN 6,81	800	900	915	1300	1	2.2	1	23035	2	1	87		C
JUN 9,81	JUN 8,81	745	745	1200	600	1	5.2	1	23037	2	1	97		
JUN 13,81	JUN 12,81	745	645	1400	1600	1	1.4	1	23039	2	1	79		
JUN 15,81	JUN 14,81	745	745	1900	400	1	4.8	1	23041	2	1	92		
JUN 16,81	JUN 15,81	745	745	1900	2400	1	2.4	1	23043	2	1	96		
JUN 17,81	JUN 16,81	745	745	2115	2300	1	1.0	1	23045	2	1	92		
JUN 18,81	JUN 17,81	745	745	1700	1500	1	0.4	1	23047	2	1	42	E	
JUN 20,81	JUN 19,81	745	900	****	1900	1	1.0	1	23050	2	1	70		
JUN 22,81	JUN 21,81	745	745	2400	745	1	****	*	23051	2	1	****		
JUN 23,81	JUN 22,81	745	745	745	1000	1	47.4	1	23053	2	1	100		
JUN 25,81	JUN 24,81	745	745	1400	2100	1	0.4	1	23055	2	1	70	E	
JUN 26,81	JUN 25,81	745	745	1720	1820	1	9.0	1	23057	2	1	97		
JUN 27,81	JUN 26,81	745	745	745	1030	1	4.4	1	23059	2	1	95		
JUL 1,81	JUN 30,81	745	745	1430	1445	1	0.6	1	23061	2	1	91	A	
JUL 3,81	JUL 2,81	745	745	1245	1330	1	0.4	1	23063	2	1	35	E	
JUL 10,81	JUL 9,81	745	745	1515	1520	1	12.7	1	23065	2	1	96	A	
JUL 14,81	JUL 13,81	745	745	1900	2300	1	2.0	1	23067	2	1	26	GH	
JUL 18,81	JUL 17,81	745	745	100	715	1	8.9	1	23069	2	1	100		
JUL 19,81	JUL 18,81	745	945	1500	1545	1	3.0	1	23071	2	1	79		
JUL 20,81	JUL 19,81	945	700	1730	1815	1	1.2	1	23073	2	1	59		
JUL 21,81	JUL 20,81	900	900	400	700	1	24.3	1	23075	2	1	104		
JUL 22,81	JUL 21,81	900	845	****	****	1	0.3	1	23077	2	1	20	E	
JUL 27,81	JUL 26,81	745	745	1530	2000	1	5.2	1	23079	2	1	100		
JUL 29,81	JUL 28,81	745	900	1400	500	1	23.8	1	23080	2	1	101	FI	
JUL 30,81	JUL 29,81	900	800	1810	2000	1	2.0	1	23081	2	1	87	AFJE	
AUG 5,81	AUG 4,81	745	815	2200	2400	1	7.4	1	23082	2	1	94		
AUG 6,81	AUG 5,81	815	900	1000	1200	1	0.8	1	23083	2	1	50	ABCD	E

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : CHARLESTON LAKE/DAILY/AEROCHEM #11

SAMPLE DATE	INITIAL DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ MG/L	SULPHATE MG/L	NITRATE AS N MG/L
MAY 6,81	MAY 5,81	94.	*****	*****	4.07	*****	4.20	0.93
MAY 11,81	MAY 10,81	U 580.	26.8	4.04	4.28	0.092	2.15	0.47
MAY 12,81	MAY 11,81	U 436.	16.0	4.38	4.49	0.068	1.20	0.28
MAY 13,81	MAY 12,81	65.	*****	*****	3.78	*****	9.75	1.40
MAY 16,81	MAY 15,81	*****	*****	*****	*****	*****	*****	*****
MAY 17,81	MAY 16,81	217.	*****	*****	3.96	*****	4.25	0.85
MAY 26,81	MAY 25,81	181.	*****	*****	3.72	*****	10.20	1.46
MAY 28,81	MAY 27,81	2245.	35.6	3.96	4.07	0.121	4.25	0.42
MAY 29,81	MAY 28,81	425.	16.0	4.41	4.64	0.063	2.00	0.17
MAY 31,81	MAY 30,81	228.	*****	*****	3.99	*****	5.60	0.86
JUN 4,81	JUN 3,81	485.	48.0	3.89	3.96	0.139	5.00	0.39
JUN 5,81	JUN 4,81	1439.	16.7	4.37	4.45	0.068	1.75	0.21
JUN 6,81	JUN 5,81	261.	42.0	*****	4.54	*****	6.05	1.67
JUN 7,81	JUN 6,81	123.	*****	*****	4.50	*****	5.00	0.98
JUN 9,81	JUN 8,81	325.	81.0	*****	3.77	0.206	8.25	1.22
JUN 13,81	JUN 12,81	71.	*****	*****	4.49	*****	2.20	0.27
JUN 15,81	JUN 14,81	285.	44.2	*****	4.04	0.127	4.55	0.47
JUN 16,81	JUN 15,81	148.	*****	*****	4.06	*****	3.45	0.79
JUN 17,81	JUN 16,81	59.	*****	*****	4.31	*****	2.45	0.35
JUN 18,81	JUN 17,81	11.	*****	*****	*****	*****	*****	*****
JUN 20,81	JUN 19,81	45.	*****	*****	3.89	*****	9.15	1.84
JUN 22,81	JUN 21,81	661.	46.0	3.89	4.04	0.127	4.90	0.57
JUN 23,81	JUN 22,81	3058.	17.5	4.25	4.43	0.065	1.75	0.23
JUN 25,81	JUN 24,81	18.	*****	*****	*****	*****	*****	*****
JUN 26,81	JUN 25,81	560.	30.0	3.97	4.23	0.086	3.20	0.49
JUN 27,81	JUN 26,81	269.	11.2	*****	4.70	0.050	1.10	0.06
JUL 1,81	JUN 30,81	35.	*****	*****	3.48	*****	*****	*****
JUL 3,81	JUL 2,81	9.	*****	*****	*****	*****	*****	*****
JUL 10,81	JUL 9,81	786.	14.1	4.39	4.87	0.045	2.10	0.20
JUL 14,81	JUL 13,81	34.	*****	*****	4.81	*****	*****	*****
JUL 18,81	JUL 17,81	575.	U 20.9	3.96	4.51	0.061	1.70	0.28
JUL 19,81	JUL 18,81	152.	*****	*****	4.48	*****	1.75	0.30
JUL 20,81	JUL 19,81	46.	*****	*****	3.75	*****	7.65	1.05
JUL 21,81	JUL 20,81	1628.	32.8	3.89	4.16	0.097	3.80	0.16
JUL 22,81	JUL 21,81	4.	*****	*****	*****	*****	*****	*****
JUL 27,81	JUL 26,81	334.	41.8	*****	4.05	0.120	4.40	0.26
JUL 29,81	JUL 28,81	1546.	15.6	4.33	4.45	0.062	1.20	0.16
JUL 30,81	JUL 29,81	112.	*****	*****	*****	*****	*****	*****
AUG 5,81	AUG 4,81	450.	103.0	3.56	3.68	0.252	11.00	1.11
AUG 6,81	AUG 5,81	26.	*****	*****	U 7.90	*****	*****	*****

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : CHARLESTON LAKE/DAILY/AEROCHEM #11

SAMPLE DATE	INITIAL DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
MAY 6,81	MAY 5,81	*****	0.23	*****	*****	*****	0.460
MAY 11,81	MAY 10,81	0.12	0.14	0.015	0.020	0.080	0.172
MAY 12,81	MAY 11,81	0.05	0.09	< 0.005	0.020	0.060	0.148
MAY 13,81	MAY 12,81	*****	0.20	*****	*****	*****	*****
MAY 16,81	MAY 15,81	*****	*****	*****	*****	*****	*****
MAY 17,81	MAY 16,81	0.13	0.11	0.025	0.030	0.040	0.326
MAY 26,81	MAY 25,81	1.10	0.91	0.180	0.170	0.590	0.980
MAY 28,81	MAY 27,81	0.12	0.17	0.020	0.030	0.060	0.570
MAY 29,81	MAY 28,81	0.14	0.41	0.055	0.100	0.520	0.196
MAY 31,81	MAY 30,81	0.39	0.27	0.095	0.040	0.120	0.620
JUN 4,81	JUN 3,81	0.13	0.29	0.030	0.100	0.190	0.164
JUN 5,81	JUN 4,81	0.13	0.23	0.025	0.120	0.180	0.140
JUN 6,81	JUN 5,81	2.00	0.38	0.375	0.070	0.080	1.440
JUN 7,81	JUN 6,81	1.08	0.21	0.210	0.070	0.260	1.110
JUN 9,81	JUN 8,81	0.43	0.26	0.075	0.050	0.080	1.010
JUN 13,81	JUN 12,81	*****	0.20	*****	*****	*****	0.232
JUN 15,81	JUN 14,81	0.08	0.14	0.010	0.020	0.110	0.460
JUN 16,81	JUN 15,81	0.29	0.31	0.035	0.030	0.170	0.306
JUN 17,81	JUN 16,81	*****	0.24	*****	*****	*****	*****
JUN 18,81	JUN 17,81	*****	*****	*****	*****	*****	*****
JUN 20,81	JUN 19,81	*****	0.34	*****	*****	*****	*****
JUN 22,81	JUN 21,81	0.16	0.09	0.020	0.020	0.020	0.640
JUN 23,81	JUN 22,81	0.02	< 0.01	< 0.005	0.010	0.010	0.178
JUN 25,81	JUN 24,81	*****	*****	*****	*****	*****	*****
JUN 26,81	JUN 25,81	0.29	0.09	0.040	0.030	0.020	0.480
JUN 27,81	JUN 26,81	0.04	0.02	0.015	< 0.010	0.010	0.014
JUL 1,81	JUN 30,81	*****	*****	*****	*****	*****	*****
JUL 3,81	JUL 2,81	*****	*****	*****	*****	*****	*****
JUL 10,81	JUL 9,81	0.22	0.11	0.025	0.040	0.070	0.430
JUL 14,81	JUL 13,81	*****	*****	*****	*****	*****	*****
JUL 18,81	JUL 17,81	0.23	0.07	0.020	< 0.010	0.020	0.114
JUL 19,81	JUL 18,81	0.19	0.08	0.025	0.020	0.040	0.210
JUL 20,81	JUL 19,81	*****	0.22	*****	*****	*****	*****
JUL 21,81	JUL 20,81	0.02	0.04	0.005	0.010	0.010	0.340
JUL 22,81	JUL 21,81	*****	*****	*****	*****	*****	*****
JUL 27,81	JUL 26,81	0.07	0.08	0.010	0.010	0.020	0.198
JUL 29,81	JUL 28,81	0.03	0.04	< 0.005	< 0.010	< 0.010	0.054
JUL 30,81	JUL 29,81	*****	*****	*****	*****	*****	*****
AUG 5,81	AUG 4,81	0.26	0.22	0.035	0.020	0.020	1.060
AUG 6,81	AUG 5,81	*****	*****	*****	*****	*****	*****

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : CHARLESTON LAKE/DAILY/AEROCHEM #11

SAMPLE DATE	INITIAL DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
AUG 8,81	AUG 7,81	745	745	300	745	1	5.8	1	23084	2	1	85		
AUG 9,81	AUG 8,81	745	900	2100	2200	1	16.0	1	23085	2	1	44		N
AUG 11,81	AUG 10,81	745	745	600	745	1	0.6	1	23086	2	1	67		
AUG 12,81	AUG 11,81	745	745	900	1120	1	5.8	1	23087	2	1	95	A	
AUG 14,81	AUG 13,81	745	800	930	1030	1	0.2	1	23088	2	1	39	JE	
AUG 15,81	AUG 14,81	800	730	400	600	1	13.1	1	23089	2	1	100	J	
AUG 16,81	AUG 15,81	730	830	845	2130	1	26.4	1	23090	2	1	104	JF	
AUG 17,81	AUG 16,81	830	800	1300	1401	1	0.8	1	23091	2	1	38	E	
AUG 25,81	AUG 24,81	745	745	1300	1400	1	1.6	1	23092	2	1	51	JF	
AUG 28,81	AUG 27,81	745	930	****	****	1	2.0	1	23093	2	1	85		
AUG 29,81	AUG 28,81	930	745	2400	745	1	3.4	1	23094	2	1	97		
AUG 31,81	AUG 30,81	745	745	200	500	1	6.0	1	23095	2	1	94	FJ	
SEP 1,81	AUG 31,81	745	745	1515	1620	1	6.0	1	23096	2	1	101	JF	
SEP 2,81	SEP 1,81	745	745	645	745	1	5.5	1	23097	2	1	103		
SEP 3,81	SEP 2,81	745	745	1730	1830	1	4.6	1	23098	2	1	84		
SEP 4,81	SEP 3,81	800	830	800	910	1	0.4	1	23099	2	1	27	E	ND
SEP 5,81	SEP 4,81	800	800	1800	2100	1	18.6	1	23100	2	1	102		J
SEP 6,81	SEP 5,81	830	1000	1815	430	1	8.6	1	23101	2	1	93	AJ	J
SEP 9,81	SEP 8,81	745	745	1630	1730	1	27.6	1	23102	2	1	102	A	
SEP 10,81	SEP 9,81	745	745	1025	1115	1	0.4	1	23103	2	1	31	E	
SEP 11,81	SEP 10,81	745	745	910	1515	1	24.6	1	23104	2	1	106	J	
SEP 12,81	SEP 11,81	745	745	200	400	1	1.2	1	23105	2	1	87		
SEP 18,81	SEP 17,81	745	800	915	1435	1	12.0	1	23106	2	1	101		
SEP 20,81	SEP 19,81	745	830	1830	115	1	1.5	1	23107	2	1	88		
SEP 22,81	SEP 21,81	830	745	100	630	1	8.0	1	23108	2	1	102		
SEP 23,81	SEP 22,81	745	830	200	730	1	15.6	1	23109	2	1	100		
SEP 24,81	SEP 23,81	830	745	830	2345	1	12.6	1	23110	2	1	97		
SEP 27,81	SEP 26,81	745	1000	600	1000	1	12.2	1	23111	2	1	93		
SEP 28,81	SEP 27,81	1000	745	1000	745	1	6.0	1	23112	2	1	95		
SEP 29,81	SEP 28,81	745	745	1000	1215	1	1.2	1	23113	2	1	74		
OCT 2,81	OCT 1,81	745	745	1700	2200	1	3.0	1	23114	2	1	78		
OCT 3,81	OCT 2,81	745	800	1200	2200	1	3.8	1	23115	2	1	67		
OCT 4,81	OCT 3,81	800	900	1200	1400	1	0.3	1	23116	2	1	41	E	
OCT 5,81	OCT 4,81	900	745	2200	745	1	0.6	1	23117	2	1	57		
OCT 6,81	OCT 5,81	745	800	630	830	1	0.4	1	23118	2	1	27	E	
OCT 7,81	OCT 6,81	800	745	1030	745	1	8.1	1	23119	2	1	94		
OCT 8,81	OCT 7,81	745	815	745	1800	1	5.8	1	23120	2	1	76		
OCT 16,81	OCT 15,81	745	730	2400	700	1	1.9	1	23121	2	1	78		
OCT 18,81	OCT 17,81	745	900	700	900	1	11.2	1	23122	2	1	100		
OCT 19,81	OCT 18,81	900	830	900	1400	1	5.0	1	23123	2	1	134	D	N

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : CHARLESTON LAKE/DAILY/AEROCHEM #11

SAMPLE DATE	INITIAL DATE		VOLUME ML	CONDUCT. UMHO/CM		PH FIELD	PH LAB	TOTAL H+ MG/L	SULPHATE MG/L	NITRATE AS N MG/L
AUG 8,81	AUG 7,81		317.	18.5		*****	4.39	0.068	1.30	0.21
AUG 9,81	AUG 8,81	U	454.	41.0		3.83	4.09	0.116	4.10	0.31
AUG 11,81	AUG 10,81		26.	*****		*****	3.79	*****	*****	*****
AUG 12,81	AUG 11,81		356.	50.0		3.76	3.97	0.144	5.35	0.33
AUG 14,81	AUG 13,81		5.	*****		*****	*****	*****	*****	*****
AUG 15,81	AUG 14,81		847.	51.5		*****	4.04	0.138	5.20	0.67
AUG 16,81	AUG 15,81		1774.	47.9		*****	4.02	0.143	4.55	0.44
AUG 17,81	AUG 16,81		20.	*****		*****	*****	*****	*****	*****
AUG 25,81	AUG 24,81		53.	*****		*****	3.99	*****	10.10	1.33
AUG 28,81	AUG 27,81		109.	*****		*****	3.78	*****	8.20	1.87
AUG 29,81	AUG 28,81		213.	60.5		*****	3.89	*****	6.40	0.57
AUG 31,81	AUG 30,81		365.	53.0		4.11	4.02	0.146	5.80	0.52
SEP 1,81	AUG 31,81		392.	74.0		3.96	3.80	0.194	7.35	0.71
SEP 2,81	SEP 1,81		365.	48.4		4.14	4.04	0.129	4.35	0.54
SEP 3,81	SEP 2,81		248.	96.2		*****	3.67	0.248	9.00	1.18
SEP 4,81	SEP 3,81	U	7.	*****		*****	*****	*****	*****	*****
SEP 5,81	SEP 4,81		1224.	24.4	U	3.47	4.31	0.077	1.75	0.33
SEP 6,81	SEP 5,81		518.	55.0	U	3.15	3.90	0.151	5.05	0.51
SEP 9,81	SEP 8,81		1812.	17.6		3.66	4.47	0.058	1.85	0.11
SEP 10,81	SEP 9,81		8.	*****		*****	*****	*****	*****	*****
SEP 11,81	SEP 10,81		1672.	22.0		4.46	4.52	0.061	2.85	0.35
SEP 12,81	SEP 11,81		67.	*****		*****	4.57	*****	6.55	1.14
SEP 18,81	SEP 17,81		778.	33.3		4.41	4.18	0.103	3.60	0.34
SEP 20,81	SEP 19,81		85.	*****		*****	5.65	*****	4.70	1.05
SEP 22,81	SEP 21,81		528.	9.0	U	5.55	4.90	0.040	0.75	0.23
SEP 23,81	SEP 22,81		1008.	9.2		5.05	4.75	*****	1.05	0.09
SEP 24,81	SEP 23,81		791.	3.2		5.72	5.49	0.033	0.40	0.03
SEP 27,81	SEP 26,81		731.	52.0		4.11	3.98	0.137	5.15	0.60
SEP 28,81	SEP 27,81		369.	13.3		5.05	4.81	0.045	2.25	0.17
SEP 29,81	SEP 28,81		57.	*****		*****	5.44	*****	0.30	0.01
OCT 2,81	OCT 1,81		151.	*****		*****	4.13	*****	4.10	0.53
OCT 3,81	OCT 2,81		165.	*****		*****	4.60	*****	0.50	0.22
OCT 4,81	OCT 3,81		8.	*****		*****	*****	*****	*****	*****
OCT 5,81	OCT 4,81		22.	*****		*****	4.43	*****	*****	*****
OCT 6,81	OCT 5,81		7.	*****		*****	*****	*****	*****	*****
OCT 7,81	OCT 6,81		493.	46.5		4.08	3.91	0.137	4.30	0.64
OCT 8,81	OCT 7,81		285.	9.1		*****	4.80	0.042	0.60	0.06
OCT 16,81	OCT 15,81		96.	*****		*****	4.00	*****	3.15	0.89
OCT 18,81	OCT 17,81		718.	15.6		4.61	4.53	0.056	1.35	0.16
OCT 19,81	OCT 18,81		432.	25.3		4.38	4.31	0.079	2.40	0.26

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : CHARLESTON LAKE/DAILY/AEROCHEM #11

SAMPLE DATE	INITIAL DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
AUG 8,81	AUG 7,81	0.05	0.03	0.005	< 0.010	0.010	0.070
AUG 9,81	AUG 8,81	0.05	0.04	0.005	0.010	0.010	0.288
AUG 11,81	AUG 10,81	*****	*****	*****	*****	*****	*****
AUG 12,81	AUG 11,81	0.03	0.05	0.005	0.020	< 0.010	0.400
AUG 14,81	AUG 13,81	*****	*****	*****	*****	*****	*****
AUG 15,81	AUG 14,81	0.18	0.14	0.035	0.040	< 0.010	0.780
AUG 16,81	AUG 15,81	0.13	0.20	0.020	0.020	0.160	0.390
AUG 17,81	AUG 16,81	*****	*****	*****	*****	*****	*****
AUG 25,81	AUG 24,81	*****	0.40	*****	*****	*****	*****
AUG 28,81	AUG 27,81	1.48	0.44	0.240	0.060	0.120	0.630
AUG 29,81	AUG 28,81	0.23	0.27	0.030	0.020	0.420	0.318
AUG 31,81	AUG 30,81	0.16	0.36	0.030	0.020	0.340	0.470
SEP 1,81	AUG 31,81	0.12	0.24	0.020	0.010	0.210	0.450
SEP 2,81	SEP 1,81	0.08	0.23	0.015	0.010	0.280	0.278
SEP 3,81	SEP 2,81	0.10	0.38	0.025	0.010	0.400	0.660
SEP 4,81	SEP 3,81	*****	*****	*****	*****	*****	*****
SEP 5,81	SEP 4,81	0.02	0.11	0.005	0.010	0.080	0.112
SEP 6,81	SEP 5,81	0.07	0.17	0.010	0.010	0.240	0.208
SEP 9,81	SEP 8,81	0.02	0.04	< 0.005	0.010	0.060	0.142
SEP 10,81	SEP 9,81	*****	*****	*****	*****	*****	*****
SEP 11,81	SEP 10,81	0.29	0.10	0.050	0.030	0.110	0.620
SEP 12,81	SEP 11,81	*****	0.75	*****	*****	*****	1.190
SEP 18,81	SEP 17,81	0.17	0.15	0.030	0.040	0.260	0.344
SEP 20,81	SEP 19,81	*****	0.76	*****	*****	*****	1.020
SEP 22,81	SEP 21,81	0.16	0.12	0.020	0.010	0.270	0.080
SEP 23,81	SEP 22,81	0.14	0.10	0.025	0.030	0.210	*****
SEP 24,81	SEP 23,81	0.05	0.11	< 0.005	0.010	0.260	0.004
SEP 27,81	SEP 26,81	0.23	0.19	0.020	0.020	0.240	0.380
SEP 28,81	SEP 27,81	0.13	0.22	0.020	0.010	0.640	0.306
SEP 29,81	SEP 28,81	*****	0.01	*****	*****	*****	*****
OCT 2,81	OCT 1,81	*****	0.10	*****	*****	*****	0.770
OCT 3,81	OCT 2,81	*****	0.02	*****	*****	*****	0.006
OCT 4,81	OCT 3,81	*****	*****	*****	*****	*****	*****
OCT 5,81	OCT 4,81	*****	*****	*****	*****	*****	*****
OCT 6,81	OCT 5,81	*****	*****	*****	*****	*****	*****
OCT 7,81	OCT 6,81	0.44	0.08	0.010	0.020	0.030	0.490
OCT 8,81	OCT 7,81	0.02	< 0.01	< 0.005	0.010	0.020	< 0.002
OCT 16,81	OCT 15,81	0.19	0.14	0.025	< 0.010	0.030	0.358
OCT 18,81	OCT 17,81	0.17	0.07	< 0.005	< 0.010	0.010	0.096
OCT 19,81	OCT 18,81	0.04	0.10	< 0.005	< 0.010	0.020	0.304

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : CHARLESTON LAKE/DAILY/AEROCHEM #11

SAMPLE DATE	INITIAL DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
OCT 20,81	OCT 19,81	830	900	830	1200	1	0.4	1	23124	2	1	35	E	
OCT 21,81	OCT 20,81	900	825	1800	2000	1	0.4	1	23125	2	1	54	DE	
OCT 22,81	OCT 21,81	825	800	830	2400	3	5.6	1	23126	2	1	87	C	
OCT 23,81	OCT 22,81	800	800	****	****	1	13.4	1	23127	2	1	113		
OCT 24,81	OCT 23,81	900	1000	900	1145	1	1.8	1	23128	2	1	61		
OCT 26,81	OCT 25,81	800	845	100	845	1	7.8	1	23129	2	1	102		
OCT 27,81	OCT 26,81	845	645	845	645	1	5.2	1	23130	2	1	97		
OCT 28,81	OCT 27,81	645	745	645	1750	1	32.0	1	23131	2	1	102		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : CHARLESTON LAKE/DAILY/AEROCHEM #11

SAMPLE DATE	INITIAL DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ MG/L	SULPHATE MG/L	NITRATE AS N MG/L
OCT 20,81	OCT 19,81	9.	*****	*****	*****	*****	*****	*****
OCT 21,81	OCT 20,81	14.	*****	*****	*****	*****	*****	*****
OCT 22,81	OCT 21,81	313.	67.0	*****	3.91	0.169	4.75	1.61
OCT 23,81	OCT 22,81	979.	64.2	4.14	3.87	0.172	3.80	1.43
OCT 24,81	OCT 23,81	71.	*****	*****	4.56	*****	*****	*****
OCT 26,81	OCT 25,81	514.	8.2	4.74	4.77	0.041	0.50	0.10
OCT 27,81	OCT 26,81	326.	11.2	*****	4.63	0.054	0.90	0.20
OCT 28,81	OCT 27,81	2097.	11.3	4.56	4.62	0.052	0.55	0.16

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : CHARLESTON LAKE/DAILY/AEROCHEM #11

SAMPLE DATE	INITIAL DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
OCT 20,81	OCT 19,81	*****	*****	*****	*****	*****	*****
OCT 21,81	OCT 20,81	*****	*****	*****	*****	*****	*****
OCT 22,81	OCT 21,81	0.84	0.27	0.070	0.080	0.050	0.710
OCT 23,81	OCT 22,81	0.11	0.24	0.025	0.030	0.040	0.470
OCT 24,81	OCT 23,81	*****	*****	*****	*****	*****	< 0.002
OCT 26,81	OCT 25,81	0.02	0.03	< 0.005	< 0.010	0.020	0.004
OCT 27,81	OCT 26,81	0.02	0.05	< 0.005	< 0.010	< 0.010	0.216
OCT 28,81	OCT 27,81	0.03	0.04	< 0.005	< 0.010	< 0.010	0.020

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : CHARLESTON LAKE/DAILY/SES #11

SAMPLE DATE	INITIAL DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
JAN 26.81	JAN 25.81	900	900	****	****	2	****	*	92	2	1	****	CO	
FEB 2.81	FEB 1.81	900	930	1700	930	1	****	*	93	2	1	****		L
FEB 3.81	FEB 2.81	930	900	930	1500	2	****	*	94	2	1	****	G	
FEB 4.81	FEB 3.81	900	900	****	****	2	****	*	2435	2	1	****	E	
FEB 5.81	FEB 4.81	900	800	****	****	2	****	*	2436	2	1	****	E	
FEB 6.81	FEB 5.81	800	900	****	****	2	****	*	2437	2	1	****	E	
FEB 7.81	FEB 6.81	900	930	****	****	2	****	*	95	2	1	****		L
FEB 9.81	FEB 8.81	900	815	****	****	2	****	*	96	2	1	****		L
FEB 10.81	FEB 9.81	815	900	****	****	2	****	*	97	2	1	****		L
FEB 11.81	FEB 10.81	900	945	****	****	3	****	*	98	2	1	****		L
FEB 12.81	FEB 11.81	900	745	****	****	*	****	*	2449	2	1	****		X
FEB 17.81	FEB 16.81	845	915	****	****	1	****	*	99	2	1	****	G	L
FEB 19.81	FEB 18.81	900	800	****	****	1	****	*	100	2	1	****		L
FEB 20.81	FEB 19.81	800	830	****	****	1	****	*	2451	2	1	****		X
FEB 21.81	FEB 20.81	830	900	****	****	1	****	*	1761	2	1	****		
FEB 24.81	FEB 23.81	830	900	****	****	1	14.0	2	1763	2	1	62	G	
FEB 26.81	FEB 25.81	830	800	****	****	1	0.8	2	1765	2	1	130		N
FEB 28.81	FEB 27.81	830	930	****	****	3	1.5	2	1767	2	1	154		N
MAR 1.81	FEB 28.81	930	900	****	****	1	0.6	2	1769	2	1	172		NM
MAR 4.81	MAR 3.81	900	900	****	****	*	0.2	2	2438	2	1	27	E	
MAR 5.81	MAR 4.81	900	700	****	****	2	0.2	2	2439	2	1	30	E	
MAR 7.81	MAR 6.81	900	930	****	****	2	2.5	2	1770	2	1	94		
MAR 9.81	MAR 8.81	900	800	****	****	2	0.4	2	1772	2	1	179		N
MAR 10.81	MAR 9.81	800	830	****	****	2	0.3	2	2452	2	1	30	E	
MAR 11.81	MAR 10.81	830	900	****	****	2	1.1	2	1774	2	1	83		
MAR 12.81	MAR 11.81	900	730	****	****	2	0.2	2	2453	2	1	85	E	
MAR 13.81	MAR 12.81	730	900	****	****	2	2.1	2	1776	2	1	85		
MAR 14.81	MAR 13.81	900	930	****	****	2	1.3	2	1778	2	1	51		
MAR 16.81	MAR 15.81	900	845	****	****	3	1.8	2	1780	2	1	97		
MAR 18.81	MAR 17.81	900	900	****	****	2	4.7	2	1782	2	1	63		
MAR 20.81	MAR 19.81	900	845	****	****	2	1.7	2	1784	2	1	81		
MAR 21.81	MAR 20.81	845	900	****	****	2	0.3	2	1786	2	1	67		
MAR 25.81	MAR 24.81	800	815	****	****	3	0.1	2	1788	2	1	237		
MAR 27.81	MAR 26.81	800	800	****	****	1	0.2	2	1790	2	1	399		
MAR 31.81	MAR 30.81	830	900	****	****	1	6.0	2	1792	2	1	111		
APR 2.81	APR 1.81	730	730	****	****	1	4.3	2	1794	2	1	112		
APR 4.81	APR 3.81	745	830	****	****	1	2.1	2	1796	2	1	227	H	N
APR 5.81	APR 4.81	830	730	830	730	1	10.9	2	1798	2	1	104	A	
APR 6.81	APR 5.81	730	745	****	800	3	0.7	2	1800	2	1	67		
APR 9.81	APR 8.81	745	745	****	800	1	1.5	2	1802	2	1	135	A	NEC

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : CHARLESTON LAKE/DAILY/SES #11

SAMPLE DATE	INITIAL DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ MG/L	SULPHATE MG/L	NITRATE AS N MG/L
JAN 26,81	JAN 25,81	175.	U 4.6	*****	4.00	*****	4.15	0.62
FEB 2,81	FEB 1,81	3075.	23.3	3.81	4.47	0.064	1.40	0.50
FEB 3,81	FEB 2,81	502.	8.5	4.20	4.85	0.041	0.60	0.16
FEB 4,81	FEB 3,81	11.	*****	*****	*****	*****	*****	*****
FEB 5,81	FEB 4,81	8.	*****	*****	*****	*****	*****	*****
FEB 6,81	FEB 5,81	4.	*****	*****	*****	*****	*****	*****
FEB 7,81	FEB 6,81	278.	46.6	*****	4.01	0.135	1.70	1.25
FEB 9,81	FEB 8,81	315.	26.6	*****	4.33	0.082	0.75	0.80
FEB 10,81	FEB 9,81	73.	*****	*****	4.02	*****	3.40	2.56
FEB 11,81	FEB 10,81	2312.	26.1	3.51	4.36	0.083	1.80	0.46
FEB 12,81	FEB 11,81	382.	*****	5.17	*****	*****	*****	*****
FEB 17,81	FEB 16,81	580.	36.5	4.26	4.18	0.102	2.95	0.73
FEB 19,81	FEB 18,81	230.	*****	*****	3.76	0.221	5.70	1.83
FEB 20,81	FEB 19,81	2039.	*****	4.22	*****	*****	*****	*****
FEB 21,81	FEB 20,81	3025.	7.1	4.40	5.00	0.039	0.50	0.18
FEB 24,81	FEB 23,81	1439.	20.9	3.99	4.44	0.068	1.30	0.35
FEB 26,81	FEB 25,81	171.	*****	*****	4.00	*****	3.05	1.05
FEB 28,81	FEB 27,81	380.	17.7	4.51	4.78	0.053	2.85	0.40
MAR 1,81	FEB 28,81	170.	*****	*****	3.59	*****	11.50	3.70
MAR 4,81	MAR 3,81	9.	*****	*****	*****	*****	*****	*****
MAR 5,81	MAR 4,81	10.	*****	*****	*****	*****	*****	*****
MAR 7,81	MAR 6,81	388.	U 17.4	4.99	5.32	0.028	0.45	0.12
MAR 9,81	MAR 8,81	118.	*****	*****	6.18	*****	5.00	0.54
MAR 10,81	MAR 9,81	15.	*****	*****	*****	*****	*****	*****
MAR 11,81	MAR 10,81	151.	*****	*****	5.24	*****	2.40	0.54
MAR 12,81	MAR 11,81	28.	*****	*****	*****	*****	*****	*****
MAR 13,81	MAR 12,81	293.	39.0	*****	6.02	0.044	5.95	1.86
MAR 14,81	MAR 13,81	109.	*****	*****	5.18	*****	2.55	0.21
MAR 16,81	MAR 15,81	288.	28.8	*****	6.78	0.035	3.75	1.23
MAR 18,81	MAR 17,81	488.	20.0	4.45	4.46	0.063	0.90	0.83
MAR 20,81	MAR 19,81	226.	*****	*****	5.43	*****	1.30	0.34
MAR 21,81	MAR 20,81	33.	*****	*****	4.08	*****	*****	*****
MAR 25,81	MAR 24,81	39.	*****	*****	5.12	*****	6.90	0.26
MAR 27,81	MAR 26,81	131.	*****	*****	3.57	*****	14.00	8.90
MAR 31,81	MAR 30,81	1095.	36.3	4.00	4.15	0.114	4.20	0.42
APR 2,81	APR 1,81	791.	38.5	4.25	4.49	0.084	5.60	1.18
APR 4,81	APR 3,81	U 784.	39.6	4.58	5.40	0.047	9.00	0.90
APR 5,81	APR 4,81	1868.	34.6	4.19	4.25	0.103	5.70	0.62
APR 6,81	APR 5,81	78.	*****	*****	5.29	*****	3.50	0.40
APR 9,81	APR 8,81	332.	71.5	*****	5.05	0.077	16.20	2.20

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : CHARLESTON LAKE/DAILY/SES #11

SAMPLE DATE	INITIAL DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
JAN 26,81	JAN 25,81	0.28	0.38	0.045	0.050	0.210	0.225
FEB 2,81	FEB 1,81	0.20	0.60	0.040	0.050	0.320	0.146
FEB 3,81	FEB 2,81	0.05	0.06	0.015	0.015	0.040	0.120
FEB 4,81	FEB 3,81	*****	*****	*****	*****	*****	*****
FEB 5,81	FEB 4,81	*****	*****	*****	*****	*****	*****
FEB 6,81	FEB 5,81	*****	*****	*****	*****	*****	*****
FEB 7,81	FEB 6,81	0.20	0.57	0.040	0.050	0.170	0.320
FEB 9,81	FEB 8,81	0.23	0.32	0.040	0.010	0.080	0.124
FEB 10,81	FEB 9,81	1.68	2.07	0.300	0.120	< 0.010	*****
FEB 11,81	FEB 10,81	0.20	0.38	0.040	0.040	0.230	0.090
FEB 12,81	FEB 11,81	*****	*****	*****	*****	*****	*****
FEB 17,81	FEB 16,81	0.37	0.45	0.070	0.030	0.310	0.332
FEB 19,81	FEB 18,81	0.51	0.62	0.090	0.100	0.220	0.520
FEB 20,81	FEB 19,81	*****	*****	*****	*****	*****	*****
FEB 21,81	FEB 20,81	0.06	0.04	< 0.005	< 0.010	0.040	0.136
FEB 24,81	FEB 23,81	0.14	0.83	0.070	0.020	0.500	0.098
FEB 26,81	FEB 25,81	0.29	0.17	0.045	0.080	0.590	0.324
FEB 28,81	FEB 27,81	0.80	0.13	0.175	0.030	0.070	0.370
MAR 1,81	FEB 28,81	0.67	0.34	0.065	0.070	0.120	1.630
MAR 4,81	MAR 3,81	*****	*****	*****	*****	*****	*****
MAR 5,81	MAR 4,81	*****	*****	*****	*****	*****	*****
MAR 7,81	MAR 6,81	0.24	0.12	0.045	< 0.010	0.040	0.004
MAR 9,81	MAR 8,81	*****	0.66	*****	*****	*****	0.700
MAR 10,81	MAR 9,81	*****	*****	*****	*****	*****	*****
MAR 11,81	MAR 10,81	0.85	0.20	0.180	0.040	0.090	0.360
MAR 12,81	MAR 11,81	*****	*****	*****	*****	*****	*****
MAR 13,81	MAR 12,81	2.41	0.72	0.510	0.100	0.310	1.600
MAR 14,81	MAR 13,81	0.55	0.22	0.115	0.030	0.170	0.360
MAR 16,81	MAR 15,81	2.00	0.48	0.510	0.110	0.310	0.900
MAR 18,81	MAR 17,81	0.52	0.33	0.140	0.020	0.190	0.168
MAR 20,81	MAR 19,81	0.36	0.48	0.275	0.070	0.530	0.014
MAR 21,81	MAR 20,81	*****	*****	*****	*****	*****	*****
MAR 25,81	MAR 24,81	*****	0.46	*****	*****	*****	*****
MAR 27,81	MAR 26,81	*****	2.30	*****	*****	*****	2.050
MAR 31,81	MAR 30,81	0.06	0.18	0.040	0.020	0.170	0.420
APR 2,81	APR 1,81	1.50	0.28	0.420	0.060	0.150	0.920
APR 4,81	APR 3,81	3.10	0.56	0.700	0.210	0.430	0.890
APR 5,81	APR 4,81	0.73	0.26	0.120	0.090	0.190	0.700
APR 6,81	APR 5,81	*****	0.12	*****	*****	*****	0.550
APR 9,81	APR 8,81	5.20	1.90	1.060	0.380	1.080	2.200

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : CHARLESTON LAKE/DAILY/SES #11

SAMPLE DATE	INITIAL DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
APR 10,81	APR 9,81	745	745	****	****	1	1.7	2	1804	2	1	142		N
APR 11,81	APR 10,81	745	900	****	****	1	3.0	2	2097	2	1	124	D	N
APR 15,81	APR 14,81	745	745	800	****	1	12.5	2	2098	2	1	96		J
APR 17,81	APR 16,81	730	900	1800	800	1	1.6	2	2099	2	1	127	C	M
APR 18,81	APR 17,81	900	830	****	****	1	9.6	2	2100	2	1	100	GB	
APR 20,81	APR 19,81	900	900	****	****	1	1.0	2	2101	2	1	151	A	N
APR 24,81	APR 23,81	745	745	45	745	1	9.8	2	2102	2	1	106	C	
APR 25,81	APR 24,81	745	900	****	****	1	4.7	2	23001	2	1	123		N
APR 29,81	APR 28,81	745	745	****	****	1	6.5	2	23003	2	1	106	A	
APR 30,81	APR 29,81	745	745	****	****	1	1.1	2	23005	2	1	158		N
MAY 1,81	APR 30,81	745	745	****	****	1	****	2	23007	2	1	****		
NOV 6,81	NOV 5,81	900	900	100	600	1	10.2	2	23132	2	1	63	G	
NOV 7,81	NOV 6,81	900	900	1300	900	3	20.8	2	23134	2	1	89		
NOV 11,81	NOV 10,81	845	830	200	600	3	1.0	2	23136	2	1	133		N
NOV 13,81	NOV 12,81	830	800	2200	2400	*	****	2	23138	2	1	****	E	
NOV 17,81	NOV 16,81	800	745	100	700	1	4.1	2	23140	2	1	110		
NOV 18,81	NOV 17,81	745	830	1000	2400	1	0.8	2	23142	2	1	163		N
NOV 19,81	NOV 18,81	830	720	1300	1700	1	0.5	2	23144	2	1	154		N
NOV 20,81	NOV 19,81	720	815	100	730	1	5.2	2	23146	2	1	104		J
NOV 21,81	NOV 20,81	815	900	1000	900	3	6.6	2	23148	2	1	101		
NOV 22,81	NOV 21,81	900	630	900	2400	3	1.2	2	23150	2	1	92		
NOV 24,81	NOV 23,81	800	915	2200	600	4	****	2	23152	2	1	****		
NOV 27,81	NOV 26,81	800	740	2200	600	1	7.1	2	23154	2	1	109		
DEC 1,81	NOV 30,81	800	900	2400	600	*	****	2	23156	2	1	****		
DEC 2,81	DEC 1,81	900	900	1700	2400	1	0.3	2	23158	2	1	191		N
DEC 3,81	DEC 2,81	900	830	930	1700	1	****	2	23160	2	1	****		
DEC 8,81	DEC 7,81	700	700	1830	400	2	2.8	2	23162	2	1	104		J
DEC 9,81	DEC 8,81	700	730	1000	1845	2	2.0	2	23164	2	1	74		
DEC 10,81	DEC 9,81	730	725	745	1930	2	0.6	2	23166	2	1	25		
DEC 11,81	DEC 10,81	725	725	1000	725	2	2.5	2	23168	2	1	76		M
DEC 12,81	DEC 11,81	725	800	725	1600	2	0.6	2	23170	2	1	94		
DEC 14,81	DEC 13,81	800	700	2400	600	2	****	2	23172	2	1	****		
DEC 15,81	DEC 14,81	700	700	1800	400	2	****	2	23174	2	1	****		
DEC 20,81	DEC 19,81	900	830	1900	600	2	0.2	2	23176	2	1	106		
DEC 22,81	DEC 21,81	830	725	2300	725	2	6.4	2	23178	2	1	74		
DEC 23,81	DEC 22,81	725	900	725	900	2	16.2	2	23180	2	1	97		
DEC 24,81	DEC 23,81	900	930	900	1130	2	2.4	2	23182	2	1	84		
DEC 28,81	DEC 27,81	930	910	1045	1315	2	12.4	2	23184	2	1	89		
DEC 29,81	DEC 28,81	910	920	2010	500	2	8.2	2	23186	2	1	86		
JAN 1,82	DEC 31,81	830	1100	30	1000	3	18.4	2	23188	2	1	91		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : CHARLESTON LAKE/DAILY/SES #11

SAMPLE DATE	INITIAL DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ MG/L	SULPHATE MG/L	NITRATE AS N MG/L
APR 10,81	APR 9,81	396.	52.5	3.33	4.08	0.130	7.75	0.94
APR 11,81	APR 10,81	613.	41.0	3.69	4.33	0.088	5.55	1.12
APR 15,81	APR 14,81	1968.	20.0	3.46	4.44	0.070	2.10	0.20
APR 17,81	APR 16,81	334.	32.4	*****	6.99	0.031	5.20	1.00
APR 18,81	APR 17,81	1582.	*****	3.45	4.30	*****	4.30	0.63
APR 20,81	APR 19,81	248.	16.5	*****	5.34	0.036	3.60	0.33
APR 24,81	APR 23,81	1715.	41.0	3.53	4.06	0.124	4.15	0.74
APR 25,81	APR 24,81	949.	32.4	4.13	4.15	0.108	2.25	0.52
APR 29,81	APR 28,81	1132.	41.6	4.21	4.16	0.084	4.35	0.78
APR 30,81	APR 29,81	286.	36.1	*****	4.16	0.102	3.65	0.40
MAY 1,81	APR 30,81	33.	*****	*****	7.14	*****	9.05	1.08
NOV 6,81	NOV 5,81	1057.	47.8	4.07	4.00	0.136	2.95	0.99
NOV 7,81	NOV 6,81	3054.	12.7	4.67	4.54	0.063	0.90	0.20
NOV 11,81	NOV 10,81	219.	*****	*****	3.80	0.194	2.60	2.83
NOV 13,81	NOV 12,81	12.	*****	*****	*****	*****	*****	*****
NOV 17,81	NOV 16,81	744.	24.5	4.33	4.41	0.074	1.90	0.48
NOV 18,81	NOV 17,81	215.	*****	*****	3.80	0.203	4.50	1.72
NOV 19,81	NOV 18,81	127.	*****	*****	3.96	*****	5.50	0.27
NOV 20,81	NOV 19,81	894.	23.5	3.38	4.33	0.076	1.60	0.45
NOV 21,81	NOV 20,81	1100.	50.4	3.21	3.94	0.145	3.25	1.17
NOV 22,81	NOV 21,81	182.	*****	*****	4.26	*****	1.10	0.57
NOV 24,81	NOV 23,81	28.	*****	*****	6.97	*****	*****	*****
NOV 27,81	NOV 26,81	1274.	41.8	4.16	4.14	0.126	3.60	0.66
DEC 1,81	NOV 30,81	18.	*****	*****	*****	*****	*****	*****
DEC 2,81	DEC 1,81	94.	*****	*****	3.91	*****	5.45	0.69
DEC 3,81	DEC 2,81	100.	*****	*****	3.94	*****	6.55	1.93
DEC 8,81	DEC 7,81	480.	29.5	3.09	4.23	0.095	1.30	1.03
DEC 9,81	DEC 8,81	243.	64.5	*****	3.86	0.178	4.45	1.26
DEC 10,81	DEC 9,81	25.	*****	*****	7.02	*****	*****	*****
DEC 11,81	DEC 10,81	314.	U 2.5	*****	5.77	0.030	0.15	0.04
DEC 12,81	DEC 11,81	93.	*****	*****	5.12	*****	0.40	0.06
DEC 14,81	DEC 13,81	15.	*****	*****	*****	*****	*****	*****
DEC 15,81	DEC 14,81	23.	*****	*****	3.52	*****	*****	*****
DEC 20,81	DEC 19,81	35.	*****	*****	7.22	*****	1.40	0.45
DEC 22,81	DEC 21,81	786.	23.6	4.20	4.30	0.086	0.55	0.68
DEC 23,81	DEC 22,81	2588.	19.7	4.24	4.32	0.091	1.30	0.28
DEC 24,81	DEC 23,81	334.	38.7	*****	4.08	0.129	3.15	0.37
DEC 28,81	DEC 27,81	1816.	16.8	4.40	4.50	0.065	0.95	0.33
DEC 29,81	DEC 28,81	1161.	20.9	4.27	4.33	0.081	0.90	0.56
JAN 1,82	DEC 31,81	2745.	15.0	4.51	4.53	0.065	0.95	0.31

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : CHARLESTON LAKE/DAILY/SES #11

SAMPLE DATE	INITIAL DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
APR 10,81	APR 9,81	0.91	0.77	0.220	0.110	0.620	1.070
APR 11,81	APR 10,81	1.52	0.27	0.325	0.100	0.200	0.810
APR 15,81	APR 14,81	0.07	0.17	0.020	0.010	0.160	0.138
APR 17,81	APR 16,81	3.40	0.26	0.600	0.100	0.110	0.800
APR 18,81	APR 17,81	*****	0.71	*****	*****	*****	0.500
APR 20,81	APR 19,81	1.05	0.08	0.135	0.040	0.070	0.480
APR 24,81	APR 23,81	0.28	0.08	0.050	0.020	0.030	0.460
APR 25,81	APR 24,81	0.06	0.02	< 0.005	0.010	0.010	0.148
APR 29,81	APR 28,81	0.42	0.08	0.115	0.040	0.030	0.710
APR 30,81	APR 29,81	0.14	0.04	0.025	0.030	0.040	0.400
MAY 1,81	APR 30,81	*****	0.93	*****	*****	*****	*****
NOV 6,81	NOV 5,81	0.18	0.15	0.015	0.020	0.060	0.390
NOV 7,81	NOV 6,81	0.03	< 0.01	< 0.005	< 0.010	0.010	0.148
NOV 11,81	NOV 10,81	1.06	0.36	0.205	0.040	0.070	0.386
NOV 13,81	NOV 12,81	*****	*****	*****	*****	*****	*****
NOV 17,81	NOV 16,81	0.24	0.26	0.055	0.020	0.160	0.320
NOV 18,81	NOV 17,81	0.15	0.22	0.020	0.030	0.060	0.660
NOV 19,81	NOV 18,81	*****	0.02	*****	*****	*****	0.328
NOV 20,81	NOV 19,81	0.09	0.02	0.005	< 0.010	0.020	0.218
NOV 21,81	NOV 20,81	0.09	0.09	0.005	0.020	0.030	0.470
NOV 22,81	NOV 21,81	0.05	0.02	< 0.005	< 0.010	0.020	0.010
NOV 24,81	NOV 23,81	*****	*****	*****	*****	*****	*****
NOV 27,81	NOV 26,81	0.32	0.38	0.060	0.040	0.260	0.352
DEC 1,81	NOV 30,81	*****	*****	*****	*****	*****	*****
DEC 2,81	DEC 1,81	*****	0.17	*****	*****	*****	0.400
DEC 3,81	DEC 2,81	*****	0.52	*****	*****	*****	1.500
DEC 8,81	DEC 7,81	0.34	0.13	0.065	0.010	0.050	0.380
DEC 9,81	DEC 8,81	0.20	0.19	0.025	0.020	0.070	0.600
DEC 10,81	DEC 9,81	*****	*****	*****	*****	*****	*****
DEC 11,81	DEC 10,81	0.18	< 0.01	0.015	< 0.010	0.030	0.004
DEC 12,81	DEC 11,81	*****	0.05	*****	*****	*****	0.042
DEC 14,81	DEC 13,81	*****	*****	*****	*****	*****	*****
DEC 15,81	DEC 14,81	*****	*****	*****	*****	*****	*****
DEC 20,81	DEC 19,81	*****	0.71	*****	*****	*****	*****
DEC 22,81	DEC 21,81	0.17	0.15	0.015	< 0.010	0.080	0.060
DEC 23,81	DEC 22,81	0.02	< 0.01	< 0.005	0.010	0.010	0.114
DEC 24,81	DEC 23,81	0.05	0.04	< 0.005	0.010	0.020	0.240
DEC 28,81	DEC 27,81	0.07	< 0.01	< 0.005	0.010	0.010	0.206
DEC 29,81	DEC 28,81	0.05	0.04	< 0.005	0.010	0.030	0.308
JAN 1,82	DEC 31,81	0.22	0.06	0.020	0.030	0.030	0.098

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : GRAHAM LAKE/DAILY/AEROCHEM #12

SAMPLE DATE	INITIAL DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
OCT 26,80	OCT 25,80	800	805	1300	800	1	58.0	1	60	2	1	23		NM
OCT 27,80	OCT 26,80	805	800	930	2300	1	2.0	1	61	2	1	60		
NOV 4,80	OCT 28,80	800	800	1120	800	1	****	*	62	2	1	****		
NOV 7,80	NOV 4,80	800	815	1140	120	3	14.2	1	63	2	1	90		L
NOV 8,80	NOV 7,80	800	810	920	310	3	14.1	1	64	2	1	112		LL
NOV 10,80	NOV 8,80	810	800	835	1140	1	4.0	1	65	2	1	131		N
NOV 14,80	NOV 10,80	800	810	1300	720	1	9.0	1	66	2	1	67	G	
NOV 18,80	NOV 14,80	810	800	100	800	2	2.6	1	67	2	1	22		L
NOV 24,80	NOV 18,80	800	800	2115	800	1	3.0	1	68	2	1	92		LL
NOV 25,80	NOV 24,80	800	800	800	300	1	17.2	1	69	2	1	100		J
NOV 26,80	NOV 25,80	800	800	905	2210	2	2.0	1	70	2	1	132		N
NOV 28,80	NOV 26,80	800	800	2035	700	3	6.0	1	71	2	1	101		LF
NOV 29,80	NOV 28,80	800	800	800	215	3	10.2	1	72	2	1	102		LL
DEC 2,80	NOV 29,80	800	800	1	720	1	3.0	1	73	2	1	95		L
DEC 3,80	DEC 2,80	800	800	1210	800	3	33.2	1	74	2	1	80		
DEC 9,80	DEC 8,80	800	800	745	1950	1	12.0	1	75	2	1	115		
DEC 10,80	DEC 9,80	800	800	1905	2130	2	2.2	1	76	2	1	4		
DEC 13,80	DEC 12,80	800	800	1200	1905	2	6.2	1	77	2	1	61		L
DEC 27,80	DEC 26,80	800	800	800	100	2	3.2	1	78	2	1	45		LN
JAN 2,81	JAN 1,81	800	800	20	410	2	4.0	1	79	2	1	78		LN
JAN 7,81	JAN 6,81	800	800	815	330	2	4.3	1	80	2	1	46		N
JAN 10,81	JAN 7,81	800	800	1010	1605	2	****	*	81	2	1	****		LN
JAN 17,81	JAN 16,81	800	800	800	2300	2	4.0	1	82	2	1	45		N
JAN 23,81	JAN 22,81	800	800	830	800	2	2.1	1	83	2	1	79		L
FEB 2,81	FEB 1,81	800	800	1400	800	3	****	*	84	2	1	****		LL
FEB 3,81	FEB 2,81	800	800	800	2100	3	****	*	85	2	1	****	G	M
FEB 7,81	FEB 6,81	800	800	1100	2130	2	****	*	86	2	1	****		L
FEB 9,81	FEB 8,81	800	800	1515	2200	2	****	*	87	2	1	****		L
FEB 11,81	FEB 10,81	800	800	1700	800	3	****	*	88	2	1	****		L
FEB 12,81	FEB 11,81	800	800	800	2330	3	****	*	89	2	1	****	DGH	M
FEB 17,81	FEB 16,81	800	800	1700	2300	1	****	*	90	2	1	****		L
FEB 20,81	FEB 19,81	800	800	810	800	1	****	*	91	2	1	****		
MAY 6,81	MAY 5,81	800	800	****	****	1	4.2	1	22506	2	1	184	D	N
MAY 10,81	MAY 9,81	800	800	****	****	1	1.0	1	22507	2	1	65		
MAY 11,81	MAY 10,81	800	800	****	****	1	12.4	1	22508	2	1	102		
MAY 12,81	MAY 11,81	800	800	****	****	1	11.1	1	22509	2	1	101		
MAY 13,81	MAY 12,81	800	800	****	****	1	1.4	1	22510	2	1	78		
MAY 16,81	MAY 15,81	800	800	****	****	1	12.2	1	22512	2	1	27	FI	N
MAY 17,81	MAY 16,81	800	800	****	****	1	4.0	1	22511	2	1	100		
MAY 26,81	MAY 25,81	800	800	****	****	1	2.6	1	22517	2	1	****	E	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : GRAHAM LAKE/DAILY/AEROCHEM #12

SAMPLE DATE	INITIAL DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ MG/L	SULPHATE MG/L	NITRATE AS N MG/L
OCT 26,80	OCT 25,80	892.	4.4	5.10	4.96	0.048	0.35	0.06
OCT 27,80	OCT 26,80	78.	*****	*****	5.56	0.039	*****	*****
NOV 4,80	OCT 28,80	56.	*****	*****	3.92	*****	4.50	1.21
NOV 7,80	NOV 4,80	825.	37.0	4.30	4.17	0.109	2.50	1.05
NOV 8,80	NOV 7,80	1014.	41.8	4.15	4.06	0.129	3.20	1.35
NOV 10,80	NOV 8,80	336.	28.8	*****	4.25	0.099	2.80	0.56
NOV 14,80	NOV 10,80	391.	6.2	*****	5.04	*****	0.30	0.12
NOV 18,80	NOV 14,80	38.	*****	*****	6.78	*****	*****	*****
NOV 24,80	NOV 18,80	177.	51.5	*****	3.94	*****	3.30	1.18
NOV 25,80	NOV 24,80	1108.	17.5	3.45	4.44	0.059	1.25	0.29
NOV 26,80	NOV 25,80	170.	16.5	*****	4.38	*****	1.10	0.31
NOV 28,80	NOV 26,80	391.	19.2	5.75	6.68	0.038	2.40	0.25
NOV 29,80	NOV 28,80	672.	23.5	4.39	4.30	0.080	1.75	0.51
DEC 2,80	NOV 29,80	183.	*****	*****	3.68	*****	6.90	3.30
DEC 3,80	DEC 2,80	1710.	18.5	4.63	4.38	0.068	1.40	0.33
DEC 9,80	DEC 8,80	889.	28.0	4.30	4.24	0.112	3.00	0.36
DEC 10,80	DEC 9,80	6.	*****	*****	*****	*****	*****	*****
DEC 13,80	DEC 12,80	244.	27.0	*****	4.21	0.112	2.10	0.74
DEC 27,80	DEC 26,80	U 94.	*****	*****	4.02	*****	1.60	1.46
JAN 2,81	JAN 1,81	202.	*****	*****	6.82	*****	3.20	1.30
JAN 7,81	JAN 6,81	U 129.	*****	*****	4.22	*****	1.55	1.22
JAN 10,81	JAN 7,81	46.	*****	*****	U 3.84	*****	1.55	0.34
JAN 17,81	JAN 16,81	U 116.	*****	*****	4.37	*****	2.50	1.86
JAN 23,81	JAN 22,81	107.	*****	*****	4.24	*****	2.65	0.98
FEB 2,81	FEB 1,81	2437.	13.4	5.61	6.65	0.024	1.95	0.50
FEB 3,81	FEB 2,81	U 304.	3.4	*****	5.17	0.031	0.15	0.03
FEB 7,81	FEB 6,81	131.	*****	*****	4.07	*****	1.95	1.60
FEB 9,81	FEB 8,81	213.	*****	*****	4.24	*****	1.75	1.12
FEB 11,81	FEB 10,81	2181.	26.2	4.37	4.28	0.079	1.80	0.51
FEB 12,81	FEB 11,81	U 662.	6.2	6.05	6.77	*****	2.50	0.06
FEB 17,81	FEB 16,81	542.	42.2	4.33	4.27	0.094	5.15	1.12
FEB 20,81	FEB 19,81	1973.	42.2	4.17	4.07	0.121	3.05	0.77
MAY 6,81	MAY 5,81	498.	U 12.6	4.49	4.49	0.059	1.75	0.26
MAY 10,81	MAY 9,81	42.	*****	*****	3.87	*****	8.05	0.94
MAY 11,81	MAY 10,81	817.	21.4	4.39	4.37	0.068	2.00	0.44
MAY 12,81	MAY 11,81	722.	15.7	4.44	4.51	0.057	1.15	0.30
MAY 13,81	MAY 12,81	70.	*****	*****	4.09	*****	4.55	0.47
MAY 16,81	MAY 15,81	U 213.	*****	*****	4.05	*****	4.05	0.57
MAY 17,81	MAY 16,81	258.	51.5	*****	4.13	0.127	6.40	0.85
MAY 26,81	MAY 25,81	*****	*****	*****	*****	*****	*****	*****

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : GRAHAM LAKE/DAILY/AEROCHEM #12

SAMPLE DATE	INITIAL DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
OCT 26,80	OCT 25,80	0.01	< 0.01	0.050	< 0.010	0.040	0.054
OCT 27,80	OCT 26,80	*****	*****	*****	*****	*****	0.240
NOV 4,80	OCT 28,80	*****	0.26	*****	*****	*****	0.510
NOV 7,80	NOV 4,80	0.25	0.23	0.050	0.100	0.095	0.800
NOV 8,80	NOV 7,80	0.70	0.23	0.090	0.070	0.055	0.770
NOV 10,80	NOV 8,80	0.27	0.22	0.040	0.080	0.110	0.490
NOV 14,80	NOV 10,80	< 0.01	0.09	< 0.005	0.010	< 0.010	0.164
NOV 18,80	NOV 14,80	*****	*****	*****	*****	*****	*****
NOV 24,80	NOV 18,80	0.38	0.50	0.075	0.160	0.240	0.390
NOV 25,80	NOV 24,80	0.14	0.08	0.015	0.030	0.060	0.180
NOV 26,80	NOV 25,80	0.14	0.10	0.015	0.040	0.090	0.098
NOV 28,80	NOV 26,80	0.80	1.06	0.175	0.290	0.830	0.730
NOV 29,80	NOV 28,80	0.11	0.10	0.015	0.020	0.060	0.370
DEC 2,80	NOV 29,80	0.95	0.51	0.115	0.130	0.330	1.960
DEC 3,80	DEC 2,80	0.18	0.09	0.030	0.020	0.030	0.154
DEC 9,80	DEC 8,80	0.14	0.14	0.035	0.030	0.110	0.272
DEC 10,80	DEC 9,80	*****	*****	*****	*****	*****	*****
DEC 13,80	DEC 12,80	0.35	0.36	0.065	0.100	0.190	0.380
DEC 27,80	DEC 26,80	*****	0.81	*****	*****	*****	*****
JAN 2,81	JAN 1,81	2.70	1.35	0.575	0.170	0.820	0.400
JAN 7,81	JAN 6,81	*****	0.37	*****	*****	*****	0.144
JAN 10,81	JAN 7,81	*****	*****	*****	*****	*****	*****
JAN 17,81	JAN 16,81	*****	1.06	*****	*****	*****	0.292
JAN 23,81	JAN 22,81	*****	0.63	*****	*****	*****	0.250
FEB 2,81	FEB 1,81	1.25	0.18	0.390	0.010	0.100	0.160
FEB 3,81	FEB 2,81	0.02	0.03	< 0.005	< 0.010	0.010	0.024
FEB 7,81	FEB 6,81	0.48	1.03	0.065	0.030	0.490	0.720
FEB 9,81	FEB 8,81	0.66	0.47	0.085	0.030	0.240	0.268
FEB 11,81	FEB 10,81	0.20	0.29	0.020	0.020	0.190	0.116
FEB 12,81	FEB 11,81	0.51	0.21	0.080	0.130	0.250	0.162
FEB 17,81	FEB 16,81	1.50	0.91	0.280	0.050	0.840	0.860
FEB 20,81	FEB 19,81	0.15	0.16	0.020	0.010	0.090	0.350
MAY 6,81	MAY 5,81	0.29	0.15	0.030	0.050	0.090	0.226
MAY 10,81	MAY 9,81	*****	0.53	*****	*****	*****	*****
MAY 11,81	MAY 10,81	0.15	0.22	0.015	0.080	0.130	0.376
MAY 12,81	MAY 11,81	0.10	0.15	0.010	0.040	0.080	0.156
MAY 13,81	MAY 12,81	*****	0.20	*****	*****	*****	*****
MAY 16,81	MAY 15,81	0.17	0.09	0.035	0.010	0.020	0.200
MAY 17,81	MAY 16,81	*****	0.36	*****	*****	*****	1.200
MAY 26,81	MAY 25,81	*****	*****	*****	*****	*****	*****

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : GRAHAM LAKE/DAILY/AEROCHEM #12

SAMPLE DATE	INITIAL DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
MAY 28,81	MAY 27,81	800	800	****	****	1	33.0	1	22518	2	1	95	A	
MAY 30,81	MAY 29,81	800	800	****	****	1	8.0	1	22519	2	1	101	GH	
MAY 31,81	MAY 30,81	800	800	****	****	1	1.6	1	22520	2	1	50		
JUN 4,81	JUN 3,81	800	800	****	****	1	4.8	1	22521	2	1	105	GH	
JUN 5,81	JUN 4,81	800	800	****	****	1	7.4	1	22522	2	1	78		
JUN 6,81	JUN 5,81	800	800	****	****	1	8.4	1	22523	2	1	108		
JUN 7,81	JUN 6,81	800	800	****	****	1	1.6	1	22524	2	1	194	C	N
JUN 9,81	JUN 8,81	800	800	****	****	1	8.6	1	22525	2	1	68		
JUN 13,81	JUN 12,81	800	800	1515	1520	1	3.0	1	22526	2	1	62		
JUN 15,81	JUN 14,81	800	800	2000	****	1	3.0	1	22527	2	1	65		
JUN 16,81	JUN 15,81	800	800	2130	800	1	1.2	1	22528	2	1	67		
JUN 17,81	JUN 16,81	800	800	****	****	1	0.3	1	22529	2	1	****	E	
JUN 18,81	JUN 17,81	800	800	****	1505	1	2.2	1	22530	2	1	78		
JUN 22,81	JUN 21,81	800	800	730	740	1	14.3	1	22531	2	1	94	HG	
JUN 23,81	JUN 22,81	800	800	1550	1615	1	30.2	1	22532	2	1	100		
JUN 26,81	JUN 25,81	800	800	710	716	1	2.2	1	22533	2	1	67		
JUN 27,81	JUN 26,81	800	800	****	****	1	4.2	1	22534	2	1	105	C	MFL
JUN 28,81	JUN 27,81	800	800	1415	1420	1	0.2	1	22536	2	1	****	E	
JUL 1,81	JUN 30,81	800	800	****	****	1	2.0	1	22535	2	1	92		
JUL 10,81	JUL 9,81	800	800	5	1815	1	9.8	1	22537	2	1	95	AC	
JUL 18,81	JUL 17,81	800	800	1900	1915	1	4.8	1	22538	2	1	145		N
JUL 21,81	JUL 20,81	800	800	1510	1535	1	22.0	1	22539	2	1	98		
JUL 29,81	JUL 28,81	800	800	1800	1945	1	24.0	1	22540	2	1	92	EG	
JUL 30,81	JUL 29,81	800	1000	1710	1730	1	****	*	22541	2	1	****		
AUG 5,81	AUG 4,81	800	800	2315	2320	1	7.4	1	22542	2	1	****	FEK	
AUG 8,81	AUG 7,81	800	800	715	740	1	11.2	1	22543	2	1	94		
AUG 9,81	AUG 8,81	800	800	2115	2135	1	9.8	1	22544	2	1	99		
AUG 11,81	AUG 10,81	800	800	****	****	1	1.1	1	22545	2	1	95		
AUG 14,81	AUG 13,81	800	800	815	825	1	8.2	1	22546	2	1	95		
AUG 15,81	AUG 14,81	800	800	315	325	1	16.0	1	22547	2	1	102		
AUG 16,81	AUG 15,81	800	800	1410	1420	1	29.0	1	22548	2	1	103		
AUG 23,81	AUG 22,81	800	800	2300	2305	1	1.8	1	22549	2	1	49		N
AUG 29,81	AUG 28,81	800	800	730	735	1	5.2	1	22550	2	1	99		
AUG 31,81	AUG 30,81	800	800	****	****	1	6.6	1	22551	2	1	106	C	
SEP 1,81	AUG 31,81	800	800	810	825	1	2.0	1	22552	2	1	69		
SEP 2,81	SEP 1,81	800	800	720	745	1	3.6	1	22553	2	1	97	B	EL
SEP 3,81	SEP 2,81	800	800	1145	1210	1	6.2	1	22554	2	1	82		
SEP 4,81	SEP 3,81	800	800	803	805	1	0.2	1	22555	2	1	****	KE	
SEP 5,81	SEP 4,81	800	800	650	700	1	9.2	1	22556	2	1	88		
SEP 6,81	SEP 5,81	800	800	2110	2130	1	3.8	1	22557	2	1	83		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : GRAHAM LAKE/DAILY/AEROCHEM #12

SAMPLE DATE	INITIAL DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ MG/L	SULPHATE MG/L	NITRATE AS N MG/L
MAY 28,81	MAY 27,81	2018.	41.6	3.95	4.07	0.121	4.55	0.44
MAY 30,81	MAY 29,81	521.	26.2	4.11	4.27	0.080	2.85	0.39
MAY 31,81	MAY 30,81	52.	*****	*****	3.92	*****	7.35	1.14
JUN 4,81	JUN 3,81	326.	57.5	*****	3.89	0.161	5.95	0.58
JUN 5,81	JUN 4,81	372.	20.3	4.26	4.45	0.074	2.15	0.27
JUN 6,81	JUN 5,81	582.	28.4	4.30	4.50	0.066	3.90	0.88
JUN 7,81	JUN 6,81	199.	*****	*****	6.19	*****	2.15	0.25
JUN 9,81	JUN 8,81	375.	56.5	3.83	3.94	0.151	5.85	0.90
JUN 13,81	JUN 12,81	120.	*****	*****	4.00	*****	6.60	0.50
JUN 15,81	JUN 14,81	125.	*****	*****	3.80	*****	7.85	0.87
JUN 16,81	JUN 15,81	52.	*****	*****	4.22	*****	2.85	0.99
JUN 17,81	JUN 16,81	*****	*****	*****	*****	*****	*****	*****
JUN 18,81	JUN 17,81	110.	*****	*****	4.22	*****	3.65	0.45
JUN 22,81	JUN 21,81	863.	49.6	4.02	4.00	0.131	5.65	0.56
JUN 23,81	JUN 22,81	1942.	20.9	4.20	4.32	0.072	2.00	0.20
JUN 26,81	JUN 25,81	95.	*****	*****	4.18	*****	4.40	0.81
JUN 27,81	JUN 26,81	285.	25.0	*****	U 7.21	0.047	1.40	0.05
JUN 28,81	JUN 27,81	*****	*****	*****	*****	*****	*****	*****
JUL 1,81	JUN 30,81	119.	*****	*****	3.73	*****	11.80	1.25
JUL 10,81	JUL 9,81	600.	12.4	4.46	4.91	0.043	2.00	0.19
JUL 18,81	JUL 17,81	448.	U 37.5	4.10	4.35	0.074	2.70	0.48
JUL 21,81	JUL 20,81	1388.	24.0	4.09	4.31	0.076	2.25	0.12
JUL 29,81	JUL 28,81	1420.	*****	*****	*****	*****	*****	*****
JUL 30,81	JUL 29,81	366.	U 6.8	4.82	5.26	0.064	0.50	0.09
AUG 5,81	AUG 4,81	*****	*****	*****	*****	*****	*****	*****
AUG 8,81	AUG 7,81	682.	9.6	4.53	4.77	0.043	0.75	0.10
AUG 9,81	AUG 8,81	627.	35.4	3.91	4.18	0.099	4.00	0.33
AUG 11,81	AUG 10,81	67.	*****	*****	3.77	*****	7.50	1.22
AUG 14,81	AUG 13,81	502.	32.6	*****	4.26	0.097	3.85	0.40
AUG 15,81	AUG 14,81	1056.	54.5	*****	4.01	0.142	5.70	0.77
AUG 16,81	AUG 15,81	1929.	43.5	*****	4.04	0.130	3.95	0.40
AUG 23,81	AUG 22,81	U 57.	*****	*****	3.84	*****	6.50	0.93
AUG 29,81	AUG 28,81	331.	88.5	*****	3.73	0.223	8.05	0.91
AUG 31,81	AUG 30,81	449.	36.0	4.31	4.28	0.088	4.50	0.37
SEP 1,81	AUG 31,81	89.	*****	*****	3.94	*****	4.60	0.73
SEP 2,81	SEP 1,81	226.	*****	*****	5.72	*****	8.00	0.84
SEP 3,81	SEP 2,81	327.	52.5	*****	3.97	0.142	4.35	0.59
SEP 4,81	SEP 3,81	*****	*****	*****	*****	*****	*****	*****
SEP 5,81	SEP 4,81	522.	23.2	3.53	4.33	0.075	1.55	0.40
SEP 6,81	SEP 5,81	204.	*****	*****	3.77	0.177	6.85	0.50

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : GRAHAM LAKE/DAILY/AEROCHEM #12

SAMPLE DATE	INITIAL DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
MAY 28,81	MAY 27,81	0.15	0.25	0.020	0.040	0.070	0.510
MAY 30,81	MAY 29,81	0.19	0.29	0.065	0.070	0.220	0.274
MAY 31,81	MAY 30,81	*****	0.37	*****	*****	*****	*****
JUN 4,81	JUN 3,81	0.22	0.26	0.030	0.090	0.180	0.308
JUN 5,81	JUN 4,81	0.15	0.26	0.030	0.040	0.280	0.260
JUN 6,81	JUN 5,81	0.91	0.19	0.170	0.050	0.030	0.880
JUN 7,81	JUN 6,81	0.80	0.31	0.075	0.200	0.230	0.360
JUN 9,81	JUN 8,81	0.34	0.24	0.065	0.050	0.070	0.810
JUN 13,81	JUN 12,81	0.16	0.16	0.030	0.040	0.050	0.910
JUN 15,81	JUN 14,81	0.21	0.28	0.030	0.050	0.120	0.730
JUN 16,81	JUN 15,81	*****	0.46	*****	*****	*****	*****
JUN 17,81	JUN 16,81	*****	*****	*****	*****	*****	*****
JUN 18,81	JUN 17,81	0.34	0.27	0.070	0.060	0.130	0.370
JUN 22,81	JUN 21,81	0.24	0.14	0.030	0.030	0.060	0.770
JUN 23,81	JUN 22,81	0.04	0.02	< 0.005	< 0.010	0.020	0.198
JUN 26,81	JUN 25,81	*****	0.57	*****	*****	*****	0.590
JUN 27,81	JUN 26,81	0.23	0.17	0.320	0.470	0.080	2.450
JUN 28,81	JUN 27,81	*****	*****	*****	*****	*****	*****
JUL 1,81	JUN 30,81	0.96	0.60	0.205	0.150	0.220	1.220
JUL 10,81	JUL 9,81	0.25	0.12	0.060	0.040	< 0.010	0.430
JUL 18,81	JUL 17,81	0.61	0.16	0.100	0.040	0.040	0.176
JUL 21,81	JUL 20,81	0.04	0.04	0.005	0.010	0.010	0.114
JUL 29,81	JUL 28,81	*****	*****	*****	*****	*****	*****
JUL 30,81	JUL 29,81	0.13	0.07	0.015	0.020	0.030	0.078
AUG 5,81	AUG 4,81	*****	*****	*****	*****	*****	*****
AUG 8,81	AUG 7,81	0.04	0.05	0.005	0.010	0.030	0.076
AUG 9,81	AUG 8,81	0.06	0.05	0.010	< 0.010	0.020	0.450
AUG 11,81	AUG 10,81	*****	0.30	*****	*****	*****	*****
AUG 14,81	AUG 13,81	0.41	0.14	0.080	0.070	0.060	0.470
AUG 15,81	AUG 14,81	0.29	0.16	0.060	0.050	0.050	0.910
AUG 16,81	AUG 15,81	0.05	0.10	0.010	0.020	0.040	0.270
AUG 23,81	AUG 22,81	*****	0.25	*****	*****	*****	*****
AUG 29,81	AUG 28,81	0.38	0.23	0.060	0.030	0.060	0.400
AUG 31,81	AUG 30,81	0.48	0.18	0.140	0.060	0.090	0.480
SEP 1,81	AUG 31,81	*****	0.29	*****	*****	*****	*****
SEP 2,81	SEP 1,81	0.96	0.54	0.135	U 2.100	0.260	1.950
SEP 3,81	SEP 2,81	0.10	0.20	0.025	0.020	0.080	0.306
SEP 4,81	SEP 3,81	*****	*****	*****	*****	*****	*****
SEP 5,81	SEP 4,81	0.08	0.19	0.020	0.030	0.080	0.152
SEP 6,81	SEP 5,81	0.11	0.25	0.025	0.050	0.090	0.370

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : GRAHAM LAKE/DAILY/AEROCHEM #12

SAMPLE DATE	INITIAL DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
SEP 7,81	SEP 6,81	800	800	200	210	1	0.2	1	22558	2	1	****	KE	
SEP 9,81	SEP 8,81	800	800	1915	1925	1	16.0	1	22559	2	1	99		
SEP 10,81	SEP 9,81	800	800	745	750	1	5.0	1	22560	2	1	98		
SEP 11,81	SEP 10,81	800	800	1430	1450	1	16.0	1	22561	2	1	108		
SEP 12,81	SEP 11,81	800	800	1605	1608	1	0.8	1	22562	2	1	****	KE	
SEP 17,81	SEP 16,81	800	800	****	****	1	1.4	1	22563	2	1	31		
SEP 18,81	SEP 17,81	800	800	1605	1610	1	9.6	1	22564	2	1	96		
SEP 20,81	SEP 19,81	800	800	2100	2110	1	2.4	1	22565	2	1	79	D	
SEP 22,81	SEP 21,81	800	800	655	715	1	9.8	1	22566	2	1	87	A	J
SEP 23,81	SEP 22,81	800	800	310	325	1	16.2	1	22567	2	1	99		
SEP 24,81	SEP 23,81	800	800	1710	1725	1	18.6	1	22568	2	1	94		
SEP 27,81	SEP 26,81	800	800	2105	2125	1	8.0	1	22569	2	1	85		
SEP 28,81	SEP 27,81	800	800	1110	1120	1	9.6	1	22570	2	1	103		
OCT 2,81	OCT 1,81	800	800	1850	1900	1	3.0	1	22571	2	1	51	DB	
OCT 3,81	OCT 2,81	800	800	1615	1620	1	3.0	1	22572	2	1	46		N
OCT 7,81	OCT 6,81	800	800	1305	1315	1	8.0	1	22573	2	1	92	AB	
OCT 8,81	OCT 7,81	800	800	1715	1730	1	6.2	1	22574	2	1	69		
OCT 16,81	OCT 15,81	800	800	115	120	1	3.0	1	22575	2	1	65		
OCT 18,81	OCT 17,81	800	800	740	750	1	11.0	1	22576	2	1	92		
OCT 19,81	OCT 18,81	800	800	1245	1300	1	6.4	1	22577	2	1	91		
OCT 20,81	OCT 19,81	800	800	1145	1205	1	1.2	1	22578	2	1	50	D	
OCT 22,81	OCT 21,81	800	800	610	615	3	7.4	1	22579	2	1	100	C	
OCT 23,81	OCT 22,81	800	800	2050	2100	1	11.8	1	22580	2	1	108	C	
OCT 24,81	OCT 23,81	800	800	915	920	1	3.4	1	22581	2	1	77		
OCT 26,81	OCT 25,81	800	800	635	800	1	9.6	1	22582	2	1	101		
OCT 27,81	OCT 26,81	800	800	730	750	1	12.4	1	22583	2	1	92		
OCT 28,81	OCT 27,81	800	800	1845	900	1	27.2	1	22584	2	1	108	HG	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : GRAHAM LAKE/DAILY/AEROCHEM #12

SAMPLE DATE	INITIAL DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ MG/L	SULPHATE MG/L	NITRATE AS N MG/L
SEP 7,81	SEP 6,81	*****	*****	*****	*****	*****	*****	*****
SEP 9,81	SEP 8,81	1017.	22.0	3.56	4.37	0.072	2.35	0.16
SEP 10,81	SEP 9,81	317.	40.5	*****	4.29	0.091	4.70	0.98
SEP 11,81	SEP 10,81	1109.	22.7	4.46	4.44	0.077	2.75	0.37
SEP 12,81	SEP 11,81	*****	*****	*****	*****	*****	*****	*****
SEP 17,81	SEP 16,81	28.	*****	*****	3.93	*****	*****	*****
SEP 18,81	SEP 17,81	596.	43.8	4.11	4.04	0.123	4.50	0.46
SEP 20,81	SEP 19,81	122.	*****	*****	4.44	*****	3.85	0.97
SEP 22,81	SEP 21,81	550.	10.7	U 5.02	4.62	0.058	0.75	0.18
SEP 23,81	SEP 22,81	1030.	7.7	4.94	4.86	0.040	0.75	0.05
SEP 24,81	SEP 23,81	1121.	4.9	4.92	4.90	0.040	0.40	0.03
SEP 27,81	SEP 26,81	437.	80.0	3.91	3.80	0.200	8.30	0.99
SEP 28,81	SEP 27,81	638.	11.8	4.82	4.59	0.053	1.30	0.09
OCT 2,81	OCT 1,81	99.	*****	*****	6.86	*****	5.10	< 0.01
OCT 3,81	OCT 2,81	U 89.	*****	*****	5.30	*****	*****	*****
OCT 7,81	OCT 6,81	474.	22.8	5.37	6.47	0.063	3.65	< 0.01
OCT 8,81	OCT 7,81	277.	6.5	*****	5.14	0.032	0.70	0.09
OCT 16,81	OCT 15,81	125.	*****	*****	3.90	*****	3.75	1.59
OCT 18,81	OCT 17,81	654.	10.6	4.89	4.72	0.048	1.30	0.13
OCT 19,81	OCT 18,81	377.	35.4	4.22	4.17	0.104	3.50	0.39
OCT 20,81	OCT 19,81	39.	*****	*****	4.12	*****	1.50	1.31
OCT 22,81	OCT 21,81	476.	62.2	3.98	3.96	0.149	4.60	1.52
OCT 23,81	OCT 22,81	824.	69.9	3.91	3.86	0.176	4.00	1.59
OCT 24,81	OCT 23,81	168.	*****	*****	4.55	*****	0.85	0.16
OCT 26,81	OCT 25,81	625.	5.6	4.96	5.04	0.039	0.35	0.06
OCT 27,81	OCT 26,81	732.	5.3	5.34	5.38	0.029	0.55	0.10
OCT 28,81	OCT 27,81	1888.	12.0	4.60	4.57	0.065	0.65	0.19

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : GRAHAM LAKE/DAILY/AEROCHEM #12

SAMPLE DATE	INITIAL DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
SEP 7,81	SEP 6,81	*****	*****	*****	*****	*****	*****
SEP 9,81	SEP 8,81	0.02	0.05	< 0.005	0.010	0.010	0.224
SEP 10,81	SEP 9,81	0.47	0.19	0.105	0.080	0.020	1.260
SEP 11,81	SEP 10,81	0.21	0.13	0.045	0.040	0.020	0.540
SEP 12,81	SEP 11,81	*****	*****	*****	*****	*****	*****
SEP 17,81	SEP 16,81	*****	*****	*****	*****	*****	*****
SEP 18,81	SEP 17,81	0.21	0.17	0.045	0.050	0.100	0.370
SEP 20,81	SEP 19,81	0.75	0.32	0.145	0.070	0.110	1.030
SEP 22,81	SEP 21,81	0.06	0.05	0.005	0.010	0.010	0.112
SEP 23,81	SEP 22,81	0.07	0.05	0.020	0.010	0.020	0.032
SEP 24,81	SEP 23,81	0.04	0.02	< 0.005	0.010	0.010	0.008
SEP 27,81	SEP 26,81	0.54	0.29	0.080	0.070	0.110	0.770
SEP 28,81	SEP 27,81	0.04	0.03	0.015	0.020	0.020	0.192
OCT 2,81	OCT 1,81	*****	0.73	*****	*****	*****	0.456
OCT 3,81	OCT 2,81	*****	*****	*****	*****	*****	0.470
OCT 7,81	OCT 6,81	0.55	0.43	0.140	U 6.600	0.080	0.010
OCT 8,81	OCT 7,81	0.18	0.18	0.030	0.020	0.090	0.060
OCT 16,81	OCT 15,81	0.35	0.39	0.060	0.090	0.170	0.640
OCT 18,81	OCT 17,81	0.22	0.11	0.030	0.030	0.070	0.080
OCT 19,81	OCT 18,81	0.09	0.15	0.005	0.030	0.050	0.400
OCT 20,81	OCT 19,81	*****	0.54	*****	*****	*****	*****
OCT 22,81	OCT 21,81	0.75	0.27	0.100	0.080	0.080	0.700
OCT 23,81	OCT 22,81	0.40	0.27	0.035	0.040	0.050	0.550
OCT 24,81	OCT 23,81	0.05	0.05	< 0.005	< 0.010	0.020	0.018
OCT 26,81	OCT 25,81	0.04	0.08	< 0.005	0.010	0.050	0.020
OCT 27,81	OCT 26,81	0.02	0.05	< 0.005	< 0.010	0.020	0.268
OCT 28,81	OCT 27,81	0.06	0.04	< 0.005	0.010	0.030	0.022

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : GRAHAM LAKE/DAILY/SES #12 PAGE : 1

SAMPLE DATE	INITIAL DATE	SAMPLING START/END HR.		PRECIP START/END HR.		SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
FEB 21,81	FEB 20,81	800	800	****	300	1	14.8	2	1605	2	1	110		
FEB 24,81	FEB 23,81	800	800	1030	300	1	24.6	2	1606	2	1	26		
FEB 25,81	FEB 24,81	800	800	100	800	1	****	*	1607	2	1	****		
FEB 26,81	FEB 25,81	800	800	1045	1400	1	1.6	2	1608	2	1	117		
MAR 1,81	FEB 28,81	800	800	815	100	3	6.2	2	2448	2	1	0	EG	
MAR 3,81	MAR 2,81	800	800	800	2000	2	7.8	2	1609	2	1	17		N
MAR 7,81	MAR 6,81	800	800	1430	300	2	4.0	2	1610	2	1	65		
MAR 10,81	MAR 9,81	800	800	800	800	3	0.8	2	1611	2	1	41		N
MAR 11,81	MAR 10,81	800	800	500	800	2	2.2	2	1612	2	1	61		
MAR 13,81	MAR 12,81	800	800	****	300	3	2.4	2	1613	2	1	64		
MAR 14,81	MAR 13,81	800	800	****	2100	2	2.4	2	1614	2	1	37		N
MAR 16,81	MAR 15,81	800	800	****	700	2	2.2	2	1615	2	1	35		N
MAR 18,81	MAR 17,81	800	800	****	730	2	5.2	2	1617	2	1	30		N
MAR 20,81	MAR 19,81	800	800	****	500	2	7.0	2	1618	2	1	25		N
MAR 27,81	MAR 26,81	800	800	****	600	1	7.2	2	1619	2	1	10		ECMN
MAR 31,81	MAR 30,81	800	800	10	2150	1	5.0	2	1620	2	1	104		
APR 2,81	APR 1,81	800	800	1400	2200	1	7.6	2	1621	2	1	93		
APR 4,81	APR 3,81	800	800	****	800	1	****	*	1622	2	1	****		
APR 5,81	APR 4,81	800	800	****	800	1	11.2	2	1623	2	1	101		
APR 6,81	APR 5,81	800	800	****	800	2	****	*	1624	2	1	****		
APR 9,81	APR 8,81	800	800	****	800	1	2.2	2	1625	2	1	89		EC
APR 10,81	APR 9,81	900	800	****	****	1	3.4	2	1626	2	1	70	A	
APR 11,81	APR 10,81	800	800	****	****	1	4.4	2	2124	2	1	97	G	
APR 15,81	APR 14,81	800	800	****	****	1	12.0	2	2125	2	1	94	A	
APR 18,81	APR 17,81	800	800	****	****	1	9.0	2	2126	2	1	114		
APR 19,81	APR 18,81	800	800	****	****	1	0.6	2	2127	2	1	119	G	
APR 24,81	APR 23,81	800	800	****	****	1	4.6	2	22501	2	1	113	D	
APR 25,81	APR 24,81	800	800	****	****	1	8.8	2	22502	2	1	109		
APR 26,81	APR 25,81	800	800	****	****	1	0.2	2	22503	2	1	573	AB	N
APR 29,81	APR 28,81	800	800	****	****	1	10.0	2	22504	2	1	56	ACDB	ECM
APR 30,81	APR 29,81	800	800	****	****	1	1.0	2	22505	2	1	17	GC	
NOV 6,81	NOV 5,81	800	800	905	920	1	8.2	2	22585	2	1	40		N
NOV 7,81	NOV 6,81	800	800	2000	2005	3	19.0	2	22586	2	1	59		
NOV 8,81	NOV 7,81	800	800	800	805	2	1.0	2	22587	2	1	70		
NOV 12,81	NOV 11,81	800	800	1300	1305	3	0.6	2	22588	2	1	170		N
NOV 17,81	NOV 16,81	800	800	2005	2015	1	4.8	2	22589	2	1	114		
NOV 18,81	NOV 17,81	800	800	800	805	1	1.0	2	22590	2	1	127		N
NOV 19,81	NOV 18,81	800	800	1810	1815	1	0.2	2	22591	2	1	362		N
NOV 20,81	NOV 19,81	800	800	640	650	1	1.0	2	22592	2	1	96		
NOV 21,81	NOV 20,81	800	800	805	810	3	10.2	2	22593	2	1	103		J

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : GRAHAM LAKE/DAILY/SES #12

SAMPLE DATE	INITIAL DATE		VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ MG/L	SULPHATE MG/L	NITRATE AS N MG/L
FEB 21.81	FEB 20.81		2691.	8.6	4.34	4.83	0.039	0.70	0.17
FEB 24.81	FEB 23.81		1053.	U 1.9	5.44	5.52	0.028	< 0.05	< 0.02
FEB 25.81	FEB 24.81		58.	*****	*****	3.40	*****	*****	*****
FEB 26.81	FEB 25.81		308.	62.0	*****	3.88	0.169	2.50	1.72
MAR 1.81	FEB 28.81		4.	*****	*****	*****	*****	*****	*****
MAR 3.81	MAR 2.81	U	223.	68.0	*****	3.93	*****	6.25	1.20
MAR 7.81	MAR 6.81		430.	5.2	5.18	5.33	0.032	0.35	0.32
MAR 10.81	MAR 9.81	U	55.	*****	*****	4.04	*****	*****	*****
MAR 11.81	MAR 10.81		222.	*****	*****	4.51	0.063	2.70	0.46
MAR 13.81	MAR 12.81		253.	39.4	*****	4.72	0.067	5.60	1.71
MAR 14.81	MAR 13.81	U	146.	*****	*****	4.96	*****	2.25	0.19
MAR 16.81	MAR 15.81	U	127.	*****	*****	6.97	*****	4.85	1.69
MAR 18.81	MAR 17.81	U	260.	24.1	*****	6.93	0.029	2.30	0.73
MAR 20.81	MAR 19.81	U	295.	10.6	*****	4.83	0.040	0.65	0.27
MAR 27.81	MAR 26.81	U	120.	*****	*****	3.45	*****	20.00	8.60
MAR 31.81	MAR 30.81		856.	28.8	4.47	4.68	0.067	5.70	0.61
APR 2.81	APR 1.81		1166.	49.9	4.16	4.31	0.106	8.15	1.16
APR 4.81	APR 3.81		478.	47.4	3.98	4.79	0.076	12.00	1.00
APR 5.81	APR 4.81		1866.	30.5	3.83	4.29	0.094	4.75	0.54
APR 6.81	APR 5.81		57.	*****	*****	4.59	*****	*****	*****
APR 9.81	APR 8.81		322.	60.0	*****	6.64	0.044	13.50	1.90
APR 10.81	APR 9.81		391.	50.0	3.25	4.02	0.148	7.20	0.94
APR 11.81	APR 10.81		705.	47.6	3.62	4.13	0.117	5.05	1.01
APR 15.81	APR 14.81		1866.	15.6	4.06	4.74	0.046	2.00	0.22
APR 18.81	APR 17.81		1684.	25.0	3.91	4.78	0.047	4.20	0.75
APR 19.81	APR 18.81		118.	*****	*****	6.79	*****	6.50	0.62
APR 24.81	APR 23.81		856.	40.7	4.32	4.26	0.099	5.15	1.02
APR 25.81	APR 24.81		1583.	31.2	4.21	4.18	0.097	2.20	0.49
APR 26.81	APR 25.81		188.	*****	*****	4.68	*****	3.20	0.25
APR 29.81	APR 28.81		932.	59.5	6.83	7.24	0.077	5.70	0.64
APR 30.81	APR 29.81		29.	*****	*****	4.09	*****	5.60	0.40
NOV 6.81	NOV 5.81	U	550.	41.5	4.26	4.16	0.107	3.60	1.01
NOV 7.81	NOV 6.81		1840.	15.8	4.59	4.54	0.058	1.20	0.28
NOV 8.81	NOV 7.81		116.	*****	*****	6.53	*****	1.60	0.06
NOV 12.81	NOV 11.81		168.	*****	*****	4.16	0.116	5.50	2.10
NOV 17.81	NOV 16.81		898.	22.4	4.77	4.86	0.050	3.45	0.46
NOV 18.81	NOV 17.81		209.	*****	*****	3.92	0.178	7.85	1.92
NOV 19.81	NOV 18.81		119.	*****	*****	4.19	*****	5.90	0.50
NOV 20.81	NOV 19.81		158.	42.9	*****	4.48	*****	5.05	1.58
NOV 21.81	NOV 20.81		1737.	32.5	3.38	4.25	0.088	2.40	0.82

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : GRAHAM LAKE/DAILY/SES #12

SAMPLE DATE	INITIAL DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
FEB 21,81	FEB 20,81	0.04	0.09	< 0.005	0.010	0.040	0.184
FEB 24,81	FEB 23,81	< 0.01	0.03	< 0.005	< 0.010	0.020	0.004
FEB 25,81	FEB 24,81	*****	*****	*****	*****	*****	0.510
FEB 26,81	FEB 25,81	0.20	0.24	0.045	0.030	0.120	0.226
MAR 1,81	FEB 28,81	*****	*****	*****	*****	*****	*****
MAR 3,81	MAR 2,81	0.43	0.30	0.075	0.030	0.120	0.740
MAR 7,81	MAR 6,81	0.16	0.06	0.050	< 0.010	0.050	0.018
MAR 10,81	MAR 9,81	*****	*****	*****	*****	*****	1.270
MAR 11,81	MAR 10,81	0.63	0.16	0.070	0.040	0.130	0.290
MAR 13,81	MAR 12,81	2.00	0.64	0.375	0.080	0.300	1.520
MAR 14,81	MAR 13,81	0.48	0.18	0.075	0.020	0.150	0.344
MAR 16,81	MAR 15,81	3.60	0.83	0.725	0.140	0.440	1.180
MAR 18,81	MAR 17,81	1.87	0.59	0.575	0.020	0.540	0.610
MAR 20,81	MAR 19,81	0.28	0.36	0.040	< 0.010	0.220	0.086
MAR 27,81	MAR 26,81	6.60	2.60	1.400	0.190	2.000	0.500
MAR 31,81	MAR 30,81	1.50	0.42	0.235	0.150	0.290	0.720
APR 2,81	APR 1,81	2.50	0.50	0.225	0.150	0.320	0.850
APR 4,81	APR 3,81	3.05	0.66	0.515	0.280	0.360	0.990
APR 5,81	APR 4,81	0.60	0.22	0.100	0.080	0.150	0.560
APR 6,81	APR 5,81	*****	*****	*****	*****	*****	*****
APR 9,81	APR 8,81	5.50	1.46	1.120	0.300	0.850	1.530
APR 10,81	APR 9,81	0.69	0.67	0.160	0.090	0.480	0.940
APR 11,81	APR 10,81	0.92	0.21	0.165	0.040	0.140	0.600
APR 15,81	APR 14,81	0.46	0.08	0.110	0.030	0.080	0.186
APR 18,81	APR 17,81	1.31	0.13	0.275	0.030	0.070	0.580
APR 19,81	APR 18,81	*****	0.22	*****	*****	*****	0.840
APR 24,81	APR 23,81	1.31	0.25	0.335	0.050	0.070	0.700
APR 25,81	APR 24,81	0.08	0.04	0.010	< 0.010	0.050	0.138
APR 26,81	APR 25,81	0.47	0.84	0.065	0.390	0.540	0.450
APR 29,81	APR 28,81	1.13	0.53	0.325	0.800	0.400	5.350
APR 30,81	APR 29,81	*****	1.54	*****	*****	*****	*****
NOV 6,81	NOV 5,81	0.81	0.24	0.220	0.050	0.100	0.368
NOV 7,81	NOV 6,81	0.10	0.04	0.005	0.010	0.020	0.162
NOV 8,81	NOV 7,81	0.90	0.48	0.200	0.090	0.890	0.004
NOV 12,81	NOV 11,81	*****	0.56	*****	*****	*****	*****
NOV 17,81	NOV 16,81	0.82	0.36	0.190	0.060	0.250	0.610
NOV 18,81	NOV 17,81	0.76	0.52	0.130	0.160	0.260	1.930
NOV 19,81	NOV 18,81	*****	0.24	*****	*****	*****	0.390
NOV 20,81	NOV 19,81	0.22	0.29	0.085	0.130	0.180	2.200
NOV 21,81	NOV 20,81	0.13	0.10	0.005	0.020	0.050	0.690

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : GRAHAM LAKE/DAILY/SES #12

SAMPLE DATE	INITIAL DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
NOV 22,81	NOV 21,81	800	800	1650	1655	2	3.2	2	22594	2	1	66		J
NOV 27,81	NOV 26,81	800	800	2010	2018	1	8.6	2	22595	2	1	112		
DEC 2,81	DEC 1,81	800	800	1855	1900	1	0.1	2	22596	2	1	445		N
DEC 3,81	DEC 2,81	800	800	1935	1938	1	0.2	2	22597	2	1	301		N
DEC 8,81	DEC 7,81	800	800	210	220	2	4.0	2	22598	2	1	89		
DEC 9,81	DEC 8,81	800	800	710	715	2	2.0	2	22599	2	1	46		N
DEC 10,81	DEC 9,81	800	800	1400	1405	2	1.4	2	22600	2	1	10		
DEC 11,81	DEC 10,81	800	800	745	755	2	3.0	2	22601	2	1	58		
DEC 15,81	DEC 14,81	800	800	2040	2045	1	1.2	2	22602	2	1	****	HGE	
DEC 22,81	DEC 21,81	800	800	710	800	2	7.4	2	22603	2	1	51		
DEC 23,81	DEC 22,81	800	800	610	800	*	11.0	2	22604	2	1	74		
DEC 24,81	DEC 23,81	800	800	810	820	2	6.0	2	22605	2	1	42		N
DEC 28,81	DEC 27,81	800	800	1610	1620	2	10.8	2	22606	2	1	66		
DEC 29,81	DEC 28,81	800	800	2010	2015	2	9.4	2	22607	2	1	68		
JAN 1,82	DEC 31,81	800	800	700	710	3	12.2	2	22608	2	1	77		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : GRAHAM LAKE/DAILY/SES #12

SAMPLE DATE	INITIAL DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ MG/L	SULPHATE MG/L	NITRATE AS N MG/L
NOV 22,81	NOV 21,81	349.	15.8	3.50	4.55	0.059	0.70	0.42
NOV 27,81	NOV 26,81	1584.	20.7	5.90	6.06	0.034	3.95	0.66
DEC 2,81	DEC 1,81	73.	*****	*****	7.26	*****	14.10	2.80
DEC 3,81	DEC 2,81	99.	*****	*****	3.81	*****	7.50	2.30
DEC 8,81	DEC 7,81	585.	13.5	5.43	5.56	0.035	1.30	0.80
DEC 9,81	DEC 8,81	U 151.	57.5	*****	4.02	*****	4.00	1.02
DEC 10,81	DEC 9,81	24.	*****	*****	7.14	*****	*****	*****
DEC 11,81	DEC 10,81	288.	U 2.9	*****	5.79	0.029	0.25	0.05
DEC 15,81	DEC 14,81	*****	*****	*****	*****	*****	*****	*****
DEC 22,81	DEC 21,81	630.	15.1	4.71	4.89	0.052	1.00	0.68
DEC 23,81	DEC 22,81	1340.	13.3	4.57	4.68	0.050	1.35	0.26
DEC 24,81	DEC 23,81	U 419.	21.5	4.24	4.31	0.076	1.65	0.32
DEC 28,81	DEC 27,81	1174.	18.9	4.43	4.54	0.061	1.50	0.52
DEC 29,81	DEC 28,81	1063.	14.0	4.64	4.71	0.061	1.05	0.46
JAN 1,82	DEC 31,81	1545.	23.2	4.30	4.33	0.092	1.50	0.46

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : GRAHAM LAKE/DAILY/SES #12

SAMPLE DATE	INITIAL DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
NOV 22,81	NOV 21,81	0.16	0.16	0.025	0.070	0.110	0.102
NOV 27,81	NOV 26,81	1.49	0.30	0.480	0.110	0.180	0.400
DEC 2,81	DEC 1,81	*****	0.78	*****	*****	*****	0.132
DEC 3,81	DEC 2,81	*****	0.60	*****	*****	*****	1.520
DEC 8,81	DEC 7,81	0.80	0.14	0.250	0.030	0.070	0.380
DEC 9,81	DEC 8,81	0.24	0.19	0.060	0.030	0.080	0.470
DEC 10,81	DEC 9,81	*****	*****	*****	*****	*****	*****
DEC 11,81	DEC 10,81	0.14	0.07	0.025	0.010	0.070	0.036
DEC 15,81	DEC 14,81	*****	*****	*****	*****	*****	*****
DEC 22,81	DEC 21,81	0.72	0.23	0.215	0.030	0.160	0.140
DEC 23,81	DEC 22,81	0.07	0.02	0.005	0.020	0.030	0.390
DEC 24,81	DEC 23,81	0.06	0.08	< 0.005	0.050	0.050	0.174
DEC 28,81	DEC 27,81	0.30	0.08	0.050	0.030	0.080	0.410
DEC 29,81	DEC 28,81	0.06	0.19	0.010	0.030	0.090	0.400
JAN 1,82	DEC 31,81	0.08	0.18	0.010	0.030	0.100	0.118

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : FORBES TWSP/DAILY/AEROCHEM #13

SAMPLE DATE	INITIAL DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
SEP 24,81	SEP 23,81	800	830	1800	****	1	2.0	1	33500	2	1	97		
SEP 26,81	SEP 25,81	800	900	****	****	1	3.2	1	33501	2	1	109	G	
SEP 27,81	SEP 26,81	900	830	900	830	1	15.6	1	33502	2	1	102		J
SEP 28,81	SEP 27,81	830	830	830	1100	1	1.0	1	33503	2	1	68	ABD	
OCT 1,81	SEP 30,81	830	830	****	830	2	15.0	2	33504	2	1	29		N

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : FORBES TWSP/DAILY/AEROCHEM #13

SAMPLE DATE	INITIAL DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ MG/L	SULPHATE MG/L	NITRATE AS N MG/L
SEP 24,81	SEP 23,81	125.	*****	*****	4.12	*****	5.10	0.76
SEP 26,81	SEP 25,81	225.	74.5	*****	3.82	*****	8.35	0.85
SEP 27,81	SEP 26,81	1026.	14.8	U 5.25	4.47	0.057	1.35	0.18
SEP 28,81	SEP 27,81	44.	*****	*****	5.98	*****	0.10	< 0.01
OCT 1,81	SEP 30,81	U 280.	13.0	*****	4.61	0.053	1.20	0.09

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : FORBES TWSP/DAILY/AEROCHEM #13

SAMPLE DATE	INITIAL DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
SEP 24,81	SEP 23,81	0.71	0.14	0.075	0.030	0.040	*****
SEP 26,81	SEP 25,81	0.40	0.12	0.050	0.040	0.070	0.740
SEP 27,81	SEP 26,81	0.05	< 0.01	< 0.005	0.050	0.130	0.164
SEP 28,81	SEP 27,81	*****	< 0.01	*****	*****	*****	*****
OCT 1,81	SEP 30,81	0.10	0.22	0.020	< 0.010	0.230	0.066

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : FORBES TWSP/DAILY/SES #13

SAMPLE DATE	INITIAL DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
OCT 5.81	OCT 3.81	800	830	****	2345	1	3.2	2	33505	2	1	125	JD	
OCT 6.81	OCT 5.81	830	830	30	****	1	7.9	2	33506	2	1	101	GQ	M
OCT 7.81	OCT 6.81	830	800	1000	2200	3	****	*	33507	2	1	****	AD	
OCT 9.81	OCT 8.81	730	730	****	****	1	****	*	33508	2	1	****	D	
OCT 10.81	OCT 9.81	730	830	****	830	1	****	*	33509	2	1	****	AD	
OCT 11.81	OCT 10.81	830	830	30	830	1	0.8	2	33510	2	1	128	DC	N
OCT 14.81	OCT 13.81	800	830	****	1200	1	18.9	2	33511	2	1	119		
OCT 15.81	OCT 14.81	830	800	830	1200	1	****	2	33512	2	1	****	C	
OCT 17.81	OCT 16.81	830	1000	****	1000	1	5.5	2	33513	2	1	106	D	
OCT 18.81	OCT 17.81	1000	1000	****	1000	3	14.2	2	33514	2	1	97	D	
OCT 20.81	OCT 19.81	800	800	****	1400	2	3.2	2	33515	2	1	71	D	
OCT 23.81	OCT 22.81	800	800	****	2300	2	1.6	2	33516	2	1	97	C	
OCT 25.81	OCT 24.81	800	830	****	830	2	2.2	2	33517	2	1	60	CD	
OCT 26.81	OCT 25.81	830	730	30	1400	2	0.8	2	33518	2	1	54	CD	
OCT 29.81	OCT 28.81	800	900	****	****	1	3.2	2	33519	2	1	95	C	
NOV 16.81	NOV 15.81	800	830	2000	830	1	1.7	2	33520	2	1	143	DE	N
NOV 17.81	NOV 16.81	830	800	830	1400	1	0.4	2	33521	2	1	224	CD	N
NOV 26.81	NOV 25.81	900	900	900	900	2	5.9	2	33522	2	1	87	CD	
NOV 27.81	NOV 26.81	900	830	900	830	2	13.9	2	33523	2	1	74	CDE	X
DEC 1.81	NOV 30.81	800	1200	1030	1200	2	0.3	2	33524	2	1	201	CDG	N
DEC 2.81	DEC 1.81	1200	830	1200	1530	2	1.2	2	33525	2	1	134	C	N
DEC 3.81	DEC 2.81	****	830	****	800	2	****	*	33526	2	1	****	DE	
DEC 4.81	DEC 3.81	800	830	800	2400	2	1.3	2	33527	2	1	88	CD	
DEC 5.81	DEC 4.81	830	900	1030	1300	2	0.1	2	33528	2	1	1335	DE	N
DEC 8.81	DEC 7.81	900	900	900	630	2	0.7	2	33529	2	1	81	CDGH	
DEC 12.81	DEC 11.81	900	900	****	****	2	****	2	33530	2	1	****	CD	
DEC 13.81	DEC 12.81	900	900	900	1200	2	0.8	2	33531	2	1	86	CD	
DEC 14.81	DEC 13.81	900	830	2100	830	2	0.2	2	33532	2	1	164	CD	N
DEC 15.81	DEC 14.81	830	900	830	900	2	0.6	2	33533	2	1	98	CD	
DEC 16.81	DEC 15.81	900	830	900	1200	2	0.2	2	33534	2	1	82	CD	
DEC 21.81	DEC 20.81	900	900	1900	600	2	4.0	2	33535	2	1	88	CD	
DEC 22.81	DEC 21.81	900	900	100	900	2	0.4	2	33536	2	1	144	CD	N
DEC 23.81	DEC 22.81	900	830	900	600	2	2.6	2	33537	2	1	80	CD	
DEC 24.81	DEC 23.81	830	900	900	1200	2	0.4	2	33538	2	1	83	C	
DEC 25.81	DEC 24.81	900	1130	100	600	2	****	2	33539	2	1	****	C	
DEC 26.81	DEC 25.81	1100	1100	100	1100	2	****	2	33540	2	1	****	CD	
DEC 27.81	DEC 26.81	1100	1000	1100	1000	2	3.8	2	33541	2	1	80	CD	
DEC 28.81	DEC 27.81	1000	830	1000	1500	2	2.4	2	33542	2	1	82	CD	
DEC 31.81	DEC 30.81	830	900	1900	900	2	2.6	2	33543	2	1	95	CD	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : FORBES TWSP/DAILY/SES #13

SAMPLE DATE	INITIAL DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ MG/L	SULPHATE MG/L	NITRATE AS N MG/L
OCT 5,81	OCT 3,81	659.	30.8	4.17	4.11	0.094	3.10	0.36
OCT 6,81	OCT 5,81	1310.	3.6	5.20	5.07	0.033	0.10	0.20
OCT 7,81	OCT 6,81	63.	*****	*****	6.02	*****	0.10	0.01
OCT 9,81	OCT 8,81	36.	*****	*****	3.90	*****	*****	*****
OCT 10,81	OCT 9,81	10.	*****	*****	3.76	*****	*****	*****
OCT 11,81	OCT 10,81	169.	*****	*****	3.56	*****	8.70	2.60
OCT 14,81	OCT 13,81	3695.	21.7	4.29	4.25	0.093	2.40	0.20
OCT 15,81	OCT 14,81	78.	*****	*****	4.17	*****	2.30	0.54
OCT 17,81	OCT 16,81	963.	6.6	5.15	5.32	0.034	0.70	0.14
OCT 18,81	OCT 17,81	2271.	7.0	4.84	4.87	0.041	0.65	0.10
OCT 20,81	OCT 19,81	374.	9.0	4.40	4.84	0.056	0.80	0.16
OCT 23,81	OCT 22,81	257.	7.4	*****	4.81	0.042	0.40	0.13
OCT 25,81	OCT 24,81	219.	10.6	*****	5.08	0.038	1.25	0.29
OCT 26,81	OCT 25,81	71.	*****	*****	4.60	*****	1.75	0.06
OCT 29,81	OCT 28,81	503.	19.3	4.39	4.36	0.075	1.75	0.27
NOV 16,81	NOV 15,81	399.	*****	3.81	*****	*****	*****	*****
NOV 17,81	NOV 16,81	147.	62.5	*****	4.11	*****	6.55	1.88
NOV 26,81	NOV 25,81	850.	25.4	4.35	4.33	0.090	1.85	0.55
NOV 27,81	NOV 26,81	1688.	*****	4.28	*****	*****	*****	*****
DEC 1,81	NOV 30,81	99.	*****	*****	4.47	*****	1.95	0.81
DEC 2,81	DEC 1,81	265.	24.4	*****	4.30	0.092	1.00	0.61
DEC 3,81	DEC 2,81	16.	*****	*****	*****	*****	*****	*****
DEC 4,81	DEC 3,81	189.	*****	*****	4.73	*****	0.60	0.11
DEC 5,81	DEC 4,81	219.	*****	*****	*****	*****	*****	*****
DEC 8,81	DEC 7,81	93.	*****	*****	*****	*****	*****	*****
DEC 12,81	DEC 11,81	32.	*****	*****	4.38	*****	*****	*****
DEC 13,81	DEC 12,81	113.	*****	*****	4.49	*****	*****	*****
DEC 14,81	DEC 13,81	54.	*****	*****	4.68	*****	*****	*****
DEC 15,81	DEC 14,81	97.	*****	*****	4.82	*****	0.35	0.13
DEC 16,81	DEC 15,81	27.	*****	*****	*****	*****	*****	*****
DEC 21,81	DEC 20,81	579.	9.2	*****	4.70	0.049	0.40	0.28
DEC 22,81	DEC 21,81	95.	*****	*****	4.46	*****	1.40	0.44
DEC 23,81	DEC 22,81	341.	12.0	*****	4.38	0.062	0.85	0.22
DEC 24,81	DEC 23,81	55.	*****	*****	4.47	*****	*****	*****
DEC 25,81	DEC 24,81	22.	*****	*****	4.48	*****	*****	*****
DEC 26,81	DEC 25,81	46.	*****	*****	5.28	*****	0.15	0.19
DEC 27,81	DEC 26,81	499.	22.2	*****	4.27	0.082	0.95	0.54
DEC 28,81	DEC 27,81	323.	25.1	*****	4.18	0.099	0.40	0.71
DEC 31,81	DEC 30,81	405.	6.8	*****	4.79	0.045	0.15	0.16

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : FORBES TWSP/DAILY/SES #13

SAMPLE DATE	INITIAL DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
OCT 5,81	OCT 3,81	0.15	0.09	0.015	0.130	0.170	0.260
OCT 6,81	OCT 5,81	0.01	< 0.01	< 0.005	< 0.010	< 0.010	0.018
OCT 7,81	OCT 6,81	*****	0.15	*****	*****	*****	*****
OCT 9,81	OCT 8,81	*****	*****	*****	*****	*****	*****
OCT 10,81	OCT 9,81	*****	*****	*****	*****	*****	*****
OCT 11,81	OCT 10,81	0.40	0.38	0.055	0.110	0.170	1.180
OCT 14,81	OCT 13,81	0.06	< 0.01	0.005	< 0.010	< 0.010	0.146
OCT 15,81	OCT 14,81	*****	0.01	*****	*****	*****	0.348
OCT 17,81	OCT 16,81	0.07	< 0.01	0.010	0.020	0.020	0.270
OCT 18,81	OCT 17,81	0.02	< 0.01	0.005	< 0.010	< 0.010	0.136
OCT 20,81	OCT 19,81	0.10	< 0.01	< 0.005	0.320	0.250	0.148
OCT 23,81	OCT 22,81	0.03	< 0.01	0.010	0.010	0.010	0.062
OCT 25,81	OCT 24,81	0.40	0.10	0.045	0.060	0.060	0.256
OCT 26,81	OCT 25,81	*****	0.22	*****	*****	*****	*****
OCT 29,81	OCT 28,81	0.14	0.07	< 0.005	0.030	0.070	0.156
NOV 16,81	NOV 15,81	*****	*****	*****	*****	*****	*****
NOV 17,81	NOV 16,81	0.29	0.15	0.040	0.060	0.130	2.500
NOV 26,81	NOV 25,81	0.14	0.14	0.005	0.040	0.130	0.260
NOV 27,81	NOV 26,81	*****	*****	*****	*****	*****	*****
DEC 1,81	NOV 30,81	0.45	0.60	0.040	0.290	0.420	0.390
DEC 2,81	DEC 1,81	0.14	0.05	0.015	0.010	0.020	0.146
DEC 3,81	DEC 2,81	*****	*****	*****	*****	*****	*****
DEC 4,81	DEC 3,81	0.03	0.02	< 0.005	< 0.010	0.030	0.004
DEC 5,81	DEC 4,81	*****	*****	*****	*****	*****	*****
DEC 8,81	DEC 7,81	*****	*****	*****	*****	*****	*****
DEC 12,81	DEC 11,81	*****	*****	*****	*****	*****	*****
DEC 13,81	DEC 12,81	*****	*****	*****	*****	*****	*****
DEC 14,81	DEC 13,81	*****	*****	*****	*****	*****	*****
DEC 15,81	DEC 14,81	*****	0.08	*****	*****	*****	*****
DEC 16,81	DEC 15,81	*****	*****	*****	*****	*****	*****
DEC 21,81	DEC 20,81	0.05	< 0.01	< 0.005	< 0.010	0.010	0.082
DEC 22,81	DEC 21,81	*****	0.07	*****	*****	*****	0.204
DEC 23,81	DEC 22,81	0.04	0.02	0.010	0.020	0.030	*****
DEC 24,81	DEC 23,81	*****	*****	*****	*****	*****	*****
DEC 25,81	DEC 24,81	*****	*****	*****	*****	*****	*****
DEC 26,81	DEC 25,81	*****	0.07	*****	*****	*****	*****
DEC 27,81	DEC 26,81	0.04	0.04	< 0.005	0.020	0.060	0.120
DEC 28,81	DEC 27,81	0.03	0.04	< 0.005	0.010	0.010	0.012
DEC 31,81	DEC 30,81	0.02	< 0.01	< 0.005	0.010	0.010	0.006

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : QUETICO CENTRE/DAILY/SES #14 PAGE : 1

SAMPLE DATE	INITIAL DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
OCT 17,81	OCT 16,81	800	800	****	****	1	3.9	1	33001	2	1	35	G	N
OCT 18,81	OCT 17,81	800	800	****	****	3	7.9	2	33002	2	1	174	BC	N
OCT 19,81	OCT 18,81	800	800	****	****	3	1.6	2	33003	2	1	35	BCD	N
OCT 20,81	OCT 19,81	800	800	****	1100	2	****	2	33004	2	1	****	C	
OCT 23,81	OCT 22,81	800	800	****	****	2	1.6	2	33005	2	1	60	CD	
OCT 25,81	OCT 24,81	800	800	****	800	2	4.7	2	33006	2	1	66	CD	
NOV 7,81	NOV 6,81	830	800	1300	1600	3	0.7	2	33008	2	1	149	C	N
NOV 9,81	NOV 8,81	800	800	2000	2200	2	****	2	33007	2	1	****	CDE	
NOV 16,81	NOV 15,81	1000	900	****	****	1	****	2	33009	2	1	****	CD	
NOV 17,81	NOV 16,81	900	800	1800	800	1	0.7	2	33010	2	1	101	CD	
NOV 18,81	NOV 17,81	800	800	****	****	2	0.5	2	33011	2	1	101	CD	
NOV 20,81	NOV 19,81	800	800	****	****	2	****	2	33012	2	1	****	CD	
NOV 26,81	NOV 25,81	800	800	1000	800	2	7.5	2	33013	2	1	99	CD	
NOV 28,81	NOV 27,81	800	1000	****	****	2	12.0	2	33014	2	1	86	CD	
DEC 2,81	DEC 1,81	800	800	1400	2000	2	****	2	33015	2	1	****		
DEC 6,81	DEC 5,81	800	800	100	600	2	****	2	33016	2	1	****	CD	
DEC 8,81	DEC 7,81	800	800	1800	800	2	****	2	33017	2	1	****	CD	
DEC 12,81	DEC 11,81	800	800	2200	100	2	3.0	2	33018	2	1	81	CD	
DEC 14,81	DEC 13,81	800	800	2400	800	2	****	2	33019	2	1	****	CD	
DEC 15,81	DEC 14,81	800	800	800	800	2	****	2	33020	2	1	****	CD	
DEC 16,81	DEC 15,81	800	800	800	1100	2	****	2	33021	2	1	****	CD	
DEC 21,81	DEC 20,81	800	800	1400	700	2	4.0	2	33022	2	1	76	CD	
DEC 22,81	DEC 21,81	800	800	800	1100	2	****	2	33023	2	1	****	CD	
DEC 23,81	DEC 22,81	800	800	2000	800	2	2.6	2	33024	2	1	71	CD	
DEC 24,81	DEC 23,81	800	800	1000	500	2	****	2	33025	2	1	****	CD	
DEC 25,81	DEC 24,81	800	800	****	****	2	****	2	33026	2	1	****	CD	
DEC 27,81	DEC 26,81	800	800	2200	800	2	4.2	2	33027	2	1	56	CD	
DEC 28,81	DEC 27,81	800	800	1200	2200	2	****	2	33028	2	1	****	CD	
DEC 31,81	DEC 30,81	800	800	2000	200	2	4.0	2	33029	2	1	78	CD	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : QUETICO CENTRE/DAILY/SES #14

SAMPLE DATE	INITIAL DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ MG/L	SULPHATE MG/L	NITRATE AS N MG/L
OCT 17,81	OCT 16,81	U 224.	*****	*****	*****	*****	*****	*****
OCT 18,81	OCT 17,81	2260.	6.1	5.00	5.16	0.053	0.40	0.13
OCT 19,81	OCT 18,81	U 93.	*****	*****	5.74	*****	0.70	0.10
OCT 20,81	OCT 19,81	82.	*****	*****	5.18	*****	1.80	0.30
OCT 23,81	OCT 22,81	158.	*****	*****	5.12	*****	0.80	0.21
OCT 25,81	OCT 24,81	516.	12.2	4.92	4.97	0.045	1.35	0.33
NOV 7,81	NOV 6,81	172.	*****	*****	4.62	*****	1.95	0.08
NOV 9,81	NOV 8,81	19.	*****	*****	*****	*****	*****	*****
NOV 16,81	NOV 15,81	128.	119.0	*****	3.82	*****	14.00	3.57
NOV 17,81	NOV 16,81	117.	16.6	*****	4.92	*****	1.75	0.48
NOV 18,81	NOV 17,81	83.	10.0	*****	4.79	*****	1.00	0.88
NOV 20,81	NOV 19,81	137.	7.7	*****	4.83	*****	0.50	0.12
NOV 26,81	NOV 25,81	1229.	23.0	4.35	4.33	0.081	1.30	0.61
NOV 28,81	NOV 27,81	1709.	12.7	4.54	4.55	0.061	0.25	0.33
DEC 2,81	DEC 1,81	282.	20.0	*****	4.33	0.073	0.85	0.53
DEC 6,81	DEC 5,81	164.	*****	*****	4.47	*****	1.75	0.40
DEC 8,81	DEC 7,81	154.	*****	*****	4.28	*****	1.80	0.56
DEC 12,81	DEC 11,81	399.	33.7	*****	4.18	0.098	1.80	0.99
DEC 14,81	DEC 13,81	78.	*****	*****	4.62	*****	0.35	0.29
DEC 15,81	DEC 14,81	190.	*****	*****	4.74	*****	0.15	0.22
DEC 16,81	DEC 15,81	81.	*****	*****	4.90	*****	0.30	0.13
DEC 21,81	DEC 20,81	499.	10.0	*****	4.74	0.048	0.30	0.32
DEC 22,81	DEC 21,81	47.	*****	*****	4.61	*****	*****	*****
DEC 23,81	DEC 22,81	303.	15.6	*****	4.48	0.062	0.90	0.25
DEC 24,81	DEC 23,81	169.	*****	*****	4.88	*****	0.30	0.22
DEC 25,81	DEC 24,81	120.	*****	*****	4.68	*****	*****	*****
DEC 27,81	DEC 26,81	389.	22.5	*****	4.24	0.085	0.25	0.72
DEC 28,81	DEC 27,81	195.	25.4	*****	4.29	*****	0.40	0.74
DEC 31,81	DEC 30,81	515.	9.7	*****	4.68	0.050	0.15	0.25

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : QUETICO CENTRE/DAILY/SES #14

SAMPLE DATE	INITIAL DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
OCT 17,81	OCT 16,81	*****	*****	*****	*****	*****	*****
OCT 18,81	OCT 17,81	0.03	< 0.01	< 0.005	< 0.010	0.010	0.170
OCT 19,81	OCT 18,81	*****	0.09	*****	*****	*****	0.142
OCT 20,81	OCT 19,81	*****	0.24	*****	*****	*****	0.264
OCT 23,81	OCT 22,81	0.20	0.08	0.015	0.040	0.120	0.252
OCT 25,81	OCT 24,81	0.32	0.04	0.045	0.030	0.020	0.328
NOV 7,81	NOV 6,81	0.14	0.04	< 0.005	0.060	0.080	0.262
NOV 9,81	NOV 8,81	*****	*****	*****	*****	*****	*****
NOV 16,81	NOV 15,81	1.45	0.32	0.155	0.150	0.250	*****
NOV 17,81	NOV 16,81	0.16	0.24	0.005	0.180	0.210	0.910
NOV 18,81	NOV 17,81	*****	0.06	*****	*****	*****	*****
NOV 20,81	NOV 19,81	0.05	0.16	0.005	0.010	0.110	0.014
NOV 26,81	NOV 25,81	0.07	0.04	< 0.005	0.020	0.040	0.360
NOV 28,81	NOV 27,81	< 0.01	< 0.01	< 0.005	< 0.010	0.020	0.054
DEC 2,81	DEC 1,81	0.05	0.05	< 0.005	0.010	0.010	0.240
DEC 5,81	DEC 5,81	0.17	0.08	0.010	0.020	0.050	0.326
DEC 8,81	DEC 7,81	0.06	0.04	0.005	0.010	0.020	0.256
DEC 12,81	DEC 11,81	0.29	0.11	0.015	0.030	0.090	0.530
DEC 14,81	DEC 13,81	*****	0.16	*****	*****	*****	0.006
DEC 15,81	DEC 14,81	0.08	0.10	0.010	0.020	0.030	*****
DEC 16,81	DEC 15,81	*****	0.14	*****	*****	*****	*****
DEC 21,81	DEC 20,81	0.05	0.04	< 0.005	0.020	0.010	*****
DEC 22,81	DEC 21,81	*****	*****	*****	*****	*****	*****
DEC 23,81	DEC 22,81	0.02	0.12	< 0.005	0.020	0.050	*****
DEC 24,81	DEC 23,81	*****	0.22	*****	*****	*****	*****
DEC 25,81	DEC 24,81	*****	*****	*****	*****	*****	*****
DEC 27,81	DEC 26,81	0.04	0.07	< 0.005	0.030	0.020	*****
DEC 28,81	DEC 27,81	0.05	0.11	< 0.005	0.010	0.030	*****
DEC 31,81	DEC 30,81	0.02	0.14	< 0.005	0.010	0.070	*****

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LAC LA CROIX/DAILY/AEROCHEM #15

SAMPLE DATE	INITIAL DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
SEP 24,81	SEP 20,81	800	800	1200	1800	1	1.9	1	32500	2	1	100	D	
SEP 26,81	SEP 24,81	800	800	1700	****	1	1.0	1	32501	2	1	71	C	
SEP 28,81	SEP 26,81	800	820	1100	****	1	13.1	1	32502	2	1	54	DB	M

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LAC LA CROIX/DAILY/AEROCHEM #15

SAMPLE DATE	INITIAL DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ MG/L	SULPHATE MG/L	NITRATE AS N MG/L
SEP 24.81	SEP 20.81	122.	*****	*****	4.38	*****	3.50	0.52
SEP 26.81	SEP 24.81	46.	*****	*****	4.14	*****	7.60	0.52
SEP 28.81	SEP 26.81	456.	6.2	4.55	5.06	0.036	0.35	0.07

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LAC LA CROIX/DAILY/AEROCHEM #15 PAGE : 3

SAMPLE DATE	INITIAL DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
SEP 24,81	SEP 20,81	*****	0.14	*****	*****	*****	0.460
SEP 26,81	SEP 24,81	*****	0.52	*****	*****	*****	*****
SEP 28,81	SEP 26,81	0.06	0.04	0.005	0.060	0.030	0.086

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LAC LA CROIX/DAILY/SES #15

SAMPLE DATE	INITIAL DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
NOV 18,81	NOV 17,81	800	800	****	****	2	****	2	32503	2	1	****	DC	
NOV 20,81	NOV 19,81	800	800	****	****	1	****	2	32504	2	1	****	CD	
NOV 26,81	NOV 25,81	800	800	****	****	1	10.0	2	32505	2	1	103	D	
NOV 27,81	NOV 26,81	800	800	1200	1600	2	7.0	2	32506	2	1	97	CD	
DEC 5,81	DEC 4,81	800	830	****	****	2	1.3	2	32507	2	1	116	C	
DEC 12,81	DEC 11,81	800	815	****	****	2	4.3	2	32508	2	1	87	C	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LAC LA CROIX/DAILY/SES #15

SAMPLE DATE	INITIAL DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ MG/L	SULPHATE MG/L	NITRATE AS N MG/L
NOV 18,81	NOV 17,81	55.	*****	*****	4.21	*****	*****	*****
NOV 20,81	NOV 19,81	104.	*****	*****	4.83	*****	0.70	0.17
NOV 26,81	NOV 25,81	1697.	31.2	*****	4.21	0.107	2.35	0.85
NOV 27,81	NOV 26,81	1116.	11.6	*****	4.62	0.068	0.35	0.30
DEC 5,81	DEC 4,81	249.	*****	*****	4.44	*****	*****	*****
DEC 12,81	DEC 11,81	618.	24.9	*****	4.33	0.090	1.05	0.77

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LAC LA CROIX/DAILY/SES #15

SAMPLE DATE	INITIAL DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
NOV 18,81	NOV 17,81	*****	*****	*****	*****	*****	< 2.000
NOV 20,81	NOV 19,81	0.09	0.15	0.010	0.010	0.110	0.060
NOV 26,81	NOV 25,81	0.27	0.09	0.015	0.050	0.110	0.550
NOV 27,81	NOV 26,81	0.02	0.02	< 0.005	0.010	0.010	0.050
DEC 5,81	DEC 4,81	*****	*****	*****	*****	*****	*****
DEC 12,81	DEC 11,81	0.22	0.09	0.010	0.030	0.120	0.206

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : FERNBERG/DAILY/SES #16 PAGE : 1

SAMPLE DATE	INITIAL DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
OCT 2,81	OCT 1,81	830	830	****	****	1	****	2	32005	2	1	****		M
OCT 4,81	OCT 3,81	830	830	2000	2400	1	5.5	2	32001	2	1	111	BCDQ	
OCT 5,81	OCT 4,81	830	830	****	1530	1	5.9	2	32002	2	1	50	DH	
OCT 6,81	OCT 5,81	830	830	30	1700	1	5.9	2	32003	2	1	196	D	MN
OCT 7,81	OCT 6,81	830	830	1000	1400	1	****	2	32004	2	1	****	D	M
OCT 10,81	OCT 9,81	830	830	****	****	1	****	*	12023	2	1	****	C	
OCT 13,81	OCT 12,81	830	830	****	****	1	****	*	12024	2	1	****	CD	
OCT 14,81	OCT 13,81	830	830	****	****	1	****	*	12025	2	1	****	D	
OCT 17,81	OCT 16,81	830	830	****	****	3	5.7	2	38006	2	1	74	D	
OCT 18,81	OCT 17,81	830	830	****	****	3	12.0	2	38007	2	1	95	D	
OCT 20,81	OCT 19,81	830	830	****	****	1	5.0	2	38003	2	1	71	CD	
OCT 21,81	OCT 20,81	830	830	****	****	4	****	*	38004	2	1	****	E	
OCT 22,81	OCT 21,81	830	830	****	****	1	****	*	38005	2	1	****	ABCDE	
OCT 23,81	OCT 22,81	830	830	****	****	2	3.8	2	38014	2	1	83	D	
OCT 25,81	OCT 24,81	830	830	****	****	2	2.8	2	38015	2	1	87	C	
OCT 31,81	OCT 30,81	1000	1100	****	****	1	****	*	38017	2	1	****		
NOV 6,81	NOV 5,81	830	830	600	800	4	****	*	38016	2	1	****	CD	
NOV 15,81	NOV 14,81	830	830	****	****	1	****	*	38023	2	1	****	D	
NOV 26,81	NOV 25,81	830	1200	130	1030	2	****	*	38027	2	1	****		
NOV 28,81	NOV 27,81	830	830	****	300	2	****	*	38028	2	1	****	D	
DEC 2,81	DEC 1,81	800	830	2400	400	2	2.3	2	38029	2	1	119	CD	
DEC 5,81	DEC 4,81	830	830	100	300	2	1.0	2	38030	2	1	86	CD	
DEC 12,81	DEC 11,81	830	830	****	****	4	14.0	2	10496	2	1	20		N
DEC 21,81	DEC 20,81	830	830	1730	2200	2	12.0	2	10497	2	1	90	CD	
DEC 27,81	DEC 26,81	830	830	1700	2200	2	****	*	10498	2	1	****	CD	
DEC 28,81	DEC 27,81	****	****	****	****	*	****	*	38040	2	1	****		
DEC 31,81	DEC 30,81	830	830	****	****	2	4.0	2	38039	2	1	77		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : FERNBERG/DAILY/SES #16

SAMPLE DATE	INITIAL DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ MG/L	SULPHATE MG/L	NITRATE AS N MG/L
OCT 2,81	OCT 1,81	132.	*****	*****	5.03	*****	0.25	0.02
OCT 4,81	OCT 3,81	1001.	10.4	4.62	4.67	0.054	0.80	0.11
OCT 5,81	OCT 4,81	488.	21.4	4.37	4.37	0.078	2.40	0.17
OCT 6,81	OCT 5,81	1897.	4.7	5.16	5.00	0.055	0.25	0.04
OCT 7,81	OCT 6,81	127.	*****	*****	5.02	*****	0.20	< 0.01
OCT 10,81	OCT 9,81	1135.	16.5	*****	4.41	0.072	1.15	0.24
OCT 13,81	OCT 12,81	230.	23.8	*****	4.34	0.083	2.30	0.23
OCT 14,81	OCT 13,81	2100.	*****	*****	*****	*****	*****	*****
OCT 17,81	OCT 16,81	700.	6.0	*****	5.39	0.039	0.85	0.12
OCT 18,81	OCT 17,81	1880.	5.4	*****	5.00	0.051	0.60	0.07
OCT 20,81	OCT 19,81	590.	5.2	*****	5.52	0.039	0.60	0.11
OCT 21,81	OCT 20,81	*****	*****	*****	*****	*****	*****	*****
OCT 22,81	OCT 21,81	*****	*****	*****	*****	*****	*****	*****
OCT 23,81	OCT 22,81	520.	6.4	*****	5.03	0.048	0.80	0.12
OCT 25,81	OCT 24,81	400.	15.0	*****	4.66	0.063	1.50	0.39
OCT 31,81	OCT 30,81	82.	*****	*****	6.19	*****	13.30	1.96
NOV 6,81	NOV 5,81	54.	*****	*****	4.23	*****	3.40	0.16
NOV 15,81	NOV 14,81	15.	*****	*****	3.90	*****	> 10.00	> 2.00
NOV 26,81	NOV 25,81	456.	23.0	*****	4.27	0.078	1.25	0.58
NOV 28,81	NOV 27,81	552.	14.4	*****	4.42	0.064	0.70	0.27
DEC 2,81	DEC 1,81	450.	18.0	*****	4.50	0.068	1.20	0.43
DEC 5,81	DEC 4,81	142.	11.6	*****	4.54	*****	0.85	0.35
DEC 12,81	DEC 11,81	U 469.	26.5	*****	4.18	0.090	0.85	0.72
DEC 21,81	DEC 20,81	1781.	8.6	*****	4.74	0.050	0.25	0.25
DEC 27,81	DEC 26,81	965.	24.0	*****	4.17	0.087	0.55	0.67
DEC 28,81	DEC 27,81	200.	*****	*****	4.19	*****	0.50	0.68
DEC 31,81	DEC 30,81	510.	7.6	*****	4.75	0.050	0.10	0.18

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : FERNBERG/DAILY/SES #16

SAMPLE DATE	INITIAL DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
OCT 2,81	OCT 1,81	0.03	0.23	0.020	0.040	0.200	< 0.002
OCT 4,81	OCT 3,81	0.05	< 0.01	< 0.005	0.070	0.020	0.050
OCT 5,81	OCT 4,81	0.08	0.08	< 0.005	0.040	0.250	0.104
OCT 6,81	OCT 5,81	< 0.01	0.06	< 0.005	< 0.010	0.010	0.040
OCT 7,81	OCT 6,81	0.01	0.03	< 0.005	0.040	0.040	< 0.002
OCT 10,81	OCT 9,81	0.07	0.08	0.010	0.020	0.030	0.090
OCT 13,81	OCT 12,81	0.04	0.11	0.010	0.020	0.070	0.114
OCT 14,81	OCT 13,81	*****	*****	*****	*****	*****	*****
OCT 17,81	OCT 16,81	0.08	< 0.01	0.010	0.020	0.090	0.266
OCT 18,81	OCT 17,81	0.02	< 0.01	< 0.005	< 0.010	0.040	0.108
OCT 20,81	OCT 19,81	0.06	0.01	0.030	0.040	0.020	0.198
OCT 21,81	OCT 20,81	*****	*****	*****	*****	*****	*****
OCT 22,81	OCT 21,81	*****	*****	*****	*****	*****	*****
OCT 23,81	OCT 22,81	0.08	0.07	< 0.005	0.020	0.090	0.074
OCT 25,81	OCT 24,81	0.38	0.06	0.145	0.040	0.130	0.292
OCT 31,81	OCT 30,81	*****	0.39	*****	*****	*****	*****
NOV 6,81	NOV 5,81	*****	0.04	*****	*****	*****	*****
NOV 15,81	NOV 14,81	*****	0.42	*****	*****	*****	*****
NOV 26,81	NOV 25,81	0.08	0.04	0.005	0.010	0.020	0.262
NOV 28,81	NOV 27,81	0.02	0.02	< 0.005	< 0.010	0.010	0.008
DEC 2,81	DEC 1,81	0.06	0.02	0.010	0.030	0.020	0.312
DEC 5,81	DEC 4,81	0.07	0.05	0.005	0.020	0.030	0.110
DEC 12,81	DEC 11,81	0.15	0.06	0.005	0.020	0.060	0.116
DEC 21,81	DEC 20,81	0.06	< 0.01	< 0.050	0.020	0.020	0.052
DEC 27,81	DEC 26,81	0.02	0.04	< 0.005	0.010	0.010	0.094
DEC 28,81	DEC 27,81	< 0.01	0.05	< 0.005	< 0.010	< 0.010	0.026
DEC 31,81	DEC 30,81	< 0.01	0.02	< 0.005	< 0.010	< 0.010	0.010

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